

JVC

SERVICE MANUAL

COLOR TELEVISION

AV-32S766_{LY}, AV-32S776_{LY}

BASIC CHASSIS

SR



[AV-32S766]



[AV-32S776]



TABLE OF CONTENTS

1	PRECAUTION	1-3
2	SPECIFIC SERVICE INSTRUCTIONS	1-4
3	DISASSEMBLY	1-6
4	ADJUSTMENT	1-14
5	TROUBLESHOOTING	1-40

SPECIFICATION

Items		Contents	
		AV-32S766	AV-32S776
Dimensions (W × H × D)		87.7cm × 69.9cm × 56.5cm (34-5/8" × 27-5/8" × 22-1/4")	93.9cm × 68.5cm × 57.0cm (37" × 27" × 22-1/2")
Mass		64.5 kg (142 lbs)	66.0 kg (145.5 lbs)
TV RF System (Analog / Digital)	Analog Digital	CCIR (M) ATSC terrestrial / Digital cable	
Color System (Analog)		NTSC	
Stereo System (Analog)		BTSC (Multi Channel Sound)	
Teletext System (Analog)		Closed caption (T1-T4 / CC1-CC4)	
TV Receiving Channels and Frequency (Analog)	VHF Low VHF High UHF CATV	02ch - 06ch : 54MHz - 88MHz 07ch - 13ch : 174MHz - 216MHz 14ch - 69ch : 470MHz - 806MHz 54MHz - 804MHz Low Band : 02 - 06 High Band : 07 - 13 Mid Band : 14 - 22 Super Band : 23 - 36 Hyper Band : 37 - 64 Ultra Band : 65 - 94, 100 - 135 Sub Mid Band : 01, 96 - 99	
TV / CATV Total Channel		191 Channels	
Intermediate Frequency (Analog)	Video IF Sound IF	45.75 MHz 41.25 MHz (4.5MHz)	
Color Sub Carrier Frequency (Analog)		3.58 MHz	
Power Input		AC120V, 60Hz	
Power Consumption		210W	
Picture Tube (Visible size)		80cm (32") (Diagonally), H: 49.6cm × W: 65.6cm (H: 19-5/8" × W: 25-7/8")	
High Voltage		30kV(+1kV/-1.3kV) (at zero beam current)	
Speaker		5cm × 12cm (2" × 4-3/4"), Oval type × 2	6.5cm × 13cm (2-1/2" × 5"), Oval type × 2
Audio Power Output		5W + 5W	10W + 10W
Antenna Terminal (VHF/UHF,ATSC/DIGITAL CABLE IN)		F-type connector, 75 Ω unbalanced, coaxial × 1	
Video / Audio Input [INPUT-1/2/3/4]	Component Video [INPUT-1/3] 1125i / 750p 525p / 525i S-Video [INPUT-1/2/4] Video Audio	RCA pin jack × 6 Y : 1V (p-p) (Sync signal: 0.35V(p-p), 3-value sync.), 75 Ω Pb/Pr : ±0.35V(p-p), 75 Ω Y : 1V (p-p), positive (Negative sync provided), 75 Ω Pb/Pr : 0.7V(p-p), 75 Ω Mini-DIN 4 pin × 3 Y: 1V (p-p), positive (Negative sync provided), 75 Ω C: 0.286V (p-p) (Burst signal), 75 Ω 1V (p-p), positive (Negative sync provided), 75 Ω, RCA pin jack × 4 500mV (rms), high impedance, RCA pin jack × 8	
Digital Input	Video Audio	HDMI 2-row 19pin connector × 1 (Digital-input terminal is not compatible with picture signals of personal computer) Digital: HDMI 2-row 19pin connector × 1 Analog: 500mV(rms) (-4dBs), high impedance, RCA pin jack × 2	
Audio Output		500mV(rms) (-4dBs), low impedance (400Hz when modulated 100%), RCA pin jack × 2	
Digital Audio Optical Output		Digital SPDIF × 1	
Remote Control Unit		RM-C1270G (AA/R6 / UM-3 battery × 2)	

Design & specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. **Electrical components having such features are identified by shading on the schematics and by (Δ) on the parts list in Service manual.** The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.
- (4) **Use isolation transformer when hot chassis.**
The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.
- (5) **Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.**
Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\perp) side GND, the ISOLATED (NEUTRAL) : (\equiv) side GND and EARTH : (\oplus) side GND. Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (6) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).
- (7) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- (8) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k Ω 2W resistor to the anode button.
- (9) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(10) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

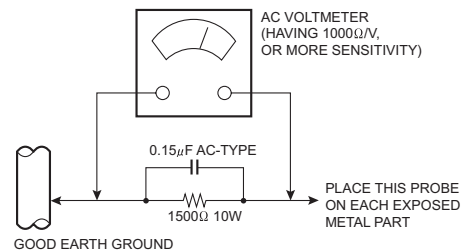
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

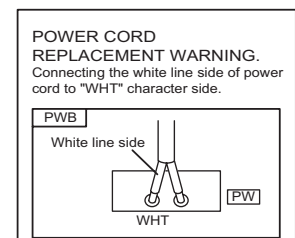
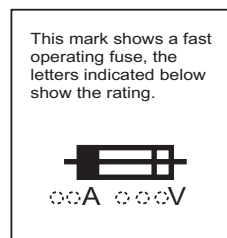
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000 Ω per volt or more sensitivity in the following manner. Connect a 1500 Ω 10W resistor paralleled by a 0.15 μ F AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



(11) High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly. See item "How to check the high voltage hold down circuit".



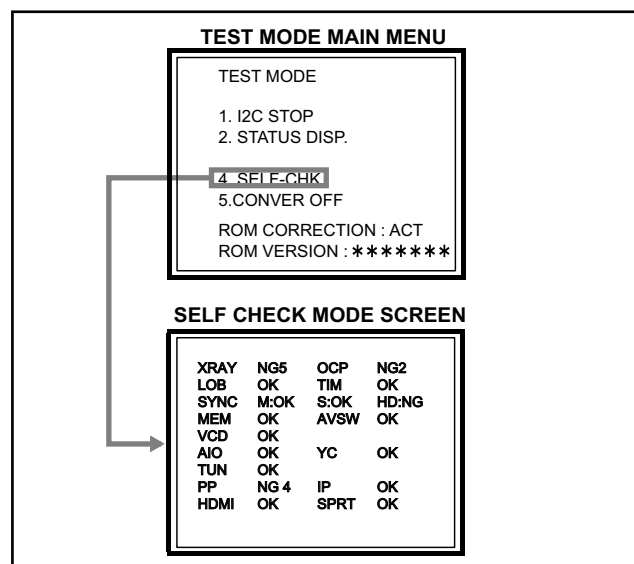
SECTION 2

SPECIFIC SERVICE INSTRUCTIONS

2.1 SYSTEM SETTING

Be sure to carry out the following operation at the end of the procedure.

- (1) Press the [SLEEP TIMER] key and set it to 30 minutes.
- (2) Press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the TEST MODE.
- (3) Press the [4] key (SELF-CHK) .
- (4) Turn off the power by pressing the [POWER] key on the remote control unit.



2.2 FEATURES

Built in ATSC (Advanced Television Systems Committee) TUNER

This TV can receive both Digital broadcasting (ATSC) and Analog broadcasting.

D.I.S.T. (Digital Image Scaling Technology)

This system uses line interpolation to double the number of scanning lines and achieve high resolution, flicker-free picture.

SMART CAPTION [AV-32S776]

Smart caption will appear when you press the MUTING button, only on channels where the broadcast contains CLOSED CAPTION information.

SMART SOUND [AV-32S776]

Decreases high sound levels, giving a regulated sound level.

FLAT SQUARE CRT

It became legible from any position by CRT with few reflection and reflect lumps on the flat screen.

DIGITAL COMB FILTER

By the 3D digital comb filter, the refreshed image can be seen.

VIDEO STATUS

Expression of a favorite screen can be chosen by the VIDEO STATUS function.

DIGITAL INPUT

Digital-in will display when any picture signal in Digital-in is displayed.

V-CHIP

Since the V-CHIP is built in, it can choose, view and listen to a healthy program.

MTS STEREO

The voice multiplex function of the MTS system is built in. (MTS = Multi channel Television Sound system)

NATURAL CINEMA

Watching the movie or animation, press the Natural Cinema to adjust the out line of the images to make thin more sharp.

BBE [AV-32S776]

High definition audio adds natural, clear and extraordinary sound quality to any program.

HYPER SURROUND

Creates a deep, three-dimensional sound effect by channeling the audio through the TV's front-firing speakers.

2.3 MAIN DIFFERENCE LIST

Item	AV-32S766/Y	AV-32S776/Y
BBE	NO	YES
SMART SOUND	NO	YES
SMART CAPTION	NO	YES
MAIN PWB	SSR-1004A-M2	SSR-1005A-M2

2.4 TECHNICAL INFORMATION

2.4.1 MAIN MICRO COMPUTER (CPU) FUNCTION

Pin No.	Pin name	I/O	Function	Pin No.	Pin name	I/O	Function
1	ATSC_RX	O	Serial communication for ATSC tuner	43	CLKSW	O	Not used
2	/MICON_V	I	V. sync for OSD	44	ON_TIM	O	Not used : Brightness control for Power/OnTimer LED
3	LB_PRO	I	Low B protect detection [Protection: H]	45	CONVER_RXD	O	Not used : Serial communication for convergence control
4	NC	-	Not used	46	CONVER_TXD	I	Not used : Serial communication for convergence control
5	/RST	I	CPU reset [Reset: L]	47	SBT1	I	Use for on board writing [Setting: H]
6	HDMI_IR	I	Interrupt request for HDMI [Empty: H]	48	NC	-	Not used
7	/TEST	I	Operation test for CPU [+3.3V Fixed]	49	ATSC_RST	O	Reset for ATSC tuner [Reset: H]
8	OSD_YS	O	Ys (blanking) for OSD	50	NC	-	Not used
9	SDA4	I/O	I ² C bus (data) for IC3001	51	OCP	I	Over current protect detection [Protection: H]
10	SYNC_SEL	O	Sync select for DIST process	52	ROTATION_L	O	Rotation control (left)
11	A_MU	O	Audio muting [Muting: H]	53	ROTATION_R	O	Rotation control (right)
12	/MICON_H	I	H. sync for OSD	54	DC_COTL	O	Black level DC reproduce control
13	BBE_SW	O	BBE control [ON: H]	55	HDMI_HP	O	HDMI control [HDCP Error: L]
14	OSDXI	-	Oscillation for OSD	56	EDID_WP	O	EDID data writing protect [Data writing: L]
15	OSDXO	-	Oscillation for OSD	57	LIGHT_DET	O	Photo sensor for DIGITAL-IN illegal copy protection
16	SDA2	I/O	I ² C bus (data) for MTS decode	58	/LOB_POW	O	Low-B power control [Power on: L]
17	AC IN	I	AC for timer clock	59	COMPLINK	I/O	Not used
18	SCL2	O	I ² C bus (clock) for MTS decode	60	/POWERGOOD	I	Not used
19	M_US_MU	O	Audio output muting [Muting: L]	61	MECA_SW	I	Machine SW interrupt detection [SW Pushing: L]
20	VCOI	I	LPF	62	/MAIN_POW	O	Main power control [Power on: L]
21	PDO	O	LPF	63	NC	-	Not used
22	/IP_RESET	O	Reset for DIST [Reset: L]	64	/B1 POW	O	B1 power control [Power on: L]
23	OSD_YM	O	YM (transparence) for OSD	65	C/N AFC1	I	Main AFT voltage
24	OSD_B	O	Blue for OSD	66	X-RAY_M	I	X-ray protect detection [Protection: under 2.2V]
25	POW_LED	O	Lighting for Power/OnTimer LED [Power ON or TIMER ON: H]	67	SPRT	I/O	Not used : Sprit protect detection [Error: L]
26	OSD_G	O	Green for OSD	68	KEY2	I	Front key scan voltage (CH+ / VOL+ / VOL-)
27	OSD_R	O	Red for OSD	69	KEY1	I	Front key scan voltage (CH- / MENU)
28	VREF	I	Reference voltage for OSD	70	SCL1	O	I ² C bus (clock) for EEP-ROM (IC1803)
29	IP_ERR	I	AMDP program load error detection [Error: L]	71	SDA1	I/O	I ² C bus (data) for EEP-ROM (IC1803)
30	IREF	I	Reference current for OSD	72	REMO	I	Remote control
31	COMP	I	Phase adjust for OSD	73	POW_DET	O	Power detection for ATSC tuner
32	AVDD	I	+3.3V	74	VSS	-	GND
33	CLL	I	Clamp low level for SUB CCD	75	OSC2	O	4MHz oscillation for system clock
34	VREFLS	I	Reference voltage for SUB CCD	76	OSC1	I	4MHz oscillation for system clock
35	SUB_CCD	I	Composite video for SUB CCD	77	VDD	I	+3.3V
36	NC	-	Not used	78	SCL0	O	I ² C bus (clock) for general
37	VSS	-	GND	79	VOUTENB	O	Boost for tuner
38	MAIN_CCD	I	Composite video for MAIN CCD	80	SDA0	I/O	I ² C bus (data) for general
39	VREFHS	I	Reference voltage for MAIN CCD	81	NC	-	Not used
40	CLH	I	Clamp high level for MAIN CCD	82	ATSC_TX	I	Serial communication for ATSC tuner
41	VDD	I	+3.3V	83	NC	-	Not used
42	SCL4	O	I ² C bus (clock) for IC3001	84	P_MU	O	Picture muting [Muting: H]

SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE [AV-32S766]

CAUTION AT DISASSEMBLY:

- **Be sure to perform the SYSTEM SETTING, at the end of the procedure.**
- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.1.1 REMOVING THE REAR COVER (Fig.1)

- Unplug the power plug.
 - (1) Remove the 14 screws [A].
 - (2) Remove the REAR COVER toward you.

NOTE:

When reinstalling the REAR COVER, carefully push it inward after inserting the chassis into the REAR COVER groove.

3.1.2 REMOVING THE SPEAKER (Fig.1)

- Remove the REAR COVER.
 - (1) Remove the 2 screws [B]
 - (2) Remove the SPEAKER HOLDER.
 - (3) Remove the 2 screws [C].
 - (4) Remove the SPEAKER.
 - (5) Follow the same steps when removing the other hand SPEAKER.

3.1.3 REMOVING THE AV TERMINAL BOARD (Fig.1)

- Remove the REAR COVER.
 - (1) Remove the 5 screws [D] and 1 screw [E].
 - (2) Withdraw the AV TERMINAL BOARD toward you.

3.1.4 REMOVING THE CHASSIS (Fig.1)

- Remove the REAR COVER.
 - (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
 - (2) Withdraw the CHASSIS backward.
(If necessary, remove the wire clamps, connectors etc.)

3.1.5 REMOVING THE FRONT SW PWB (Fig.1)

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) Remove the 2 screws [F].
 - (2) Remove the FRONT SW PWB.

3.1.6 REMOVING THE FRONT CONTROL PWB (Fig.1)

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) Remove the 2 screws [G].
 - (2) Remove the FRONT CONTROL PWB.

3.1.7 REMOVING THE SD CARD PWB (Fig.1)

- Remove the REAR COVER.
- Remove the AV TERMINAL BOARD.
 - (1) Remove the 2 screws [H].
 - (2) Remove the SD CARD PWB.

3.1.8 CHECKING THE PW BOARD (Fig.1)

- To check the PW Board from backside.
 - (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
 - (2) Erect the CHASSIS vertically with the HVT side facing up so that you can easily check the back side of the PW Board.

CAUTION:

- When erecting the CHASSIS, be careful so that there will be no contact with other PWB.
- Before turning the power on, make sure that the CRT earth wire and other connectors are properly connected.

3.1.9 WIRE CLAMPING AND CABLE TYING (Fig.1)

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

CAUTION :

Make sure to perform the "SYSTEM SETTING" according to before page, when DIGITAL SIGNAL PWB is replaced.

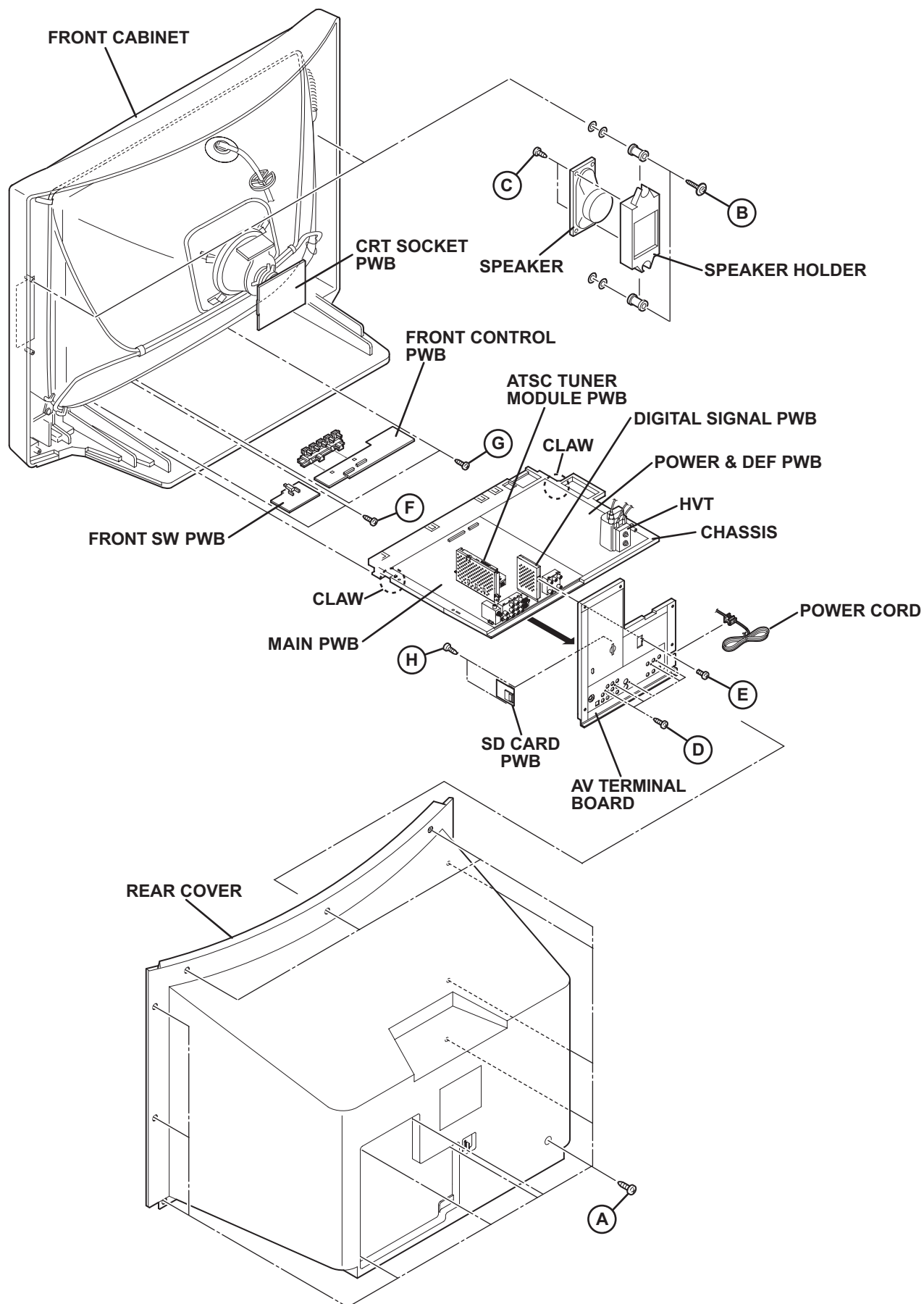


Fig.1

3.2 DISASSEMBLY PROCEDURE [AV-32S776]

CAUTION AT DISASSEMBLY:

- **Be sure to perform the SYSTEM SETTING, at the end of the procedure.**
- Make sure that the power cord is disconnected from the outlet.
- Pay special attention not to break or damage the parts.
- When removing each board, remove the connectors as required. Taking notes of the connecting points (connector numbers) makes service procedure manageable.
- Make sure that there is no bent or stain on the connectors before inserting, and firmly insert the connectors.

3.2.1 REMOVING THE REAR COVER (Fig.2)

- Unplug the power plug.
 - (1) Remove the 13 screws [A].
 - (2) Remove the REAR COVER toward you.

NOTE:

When reinstalling the REAR COVER, carefully push it inward after inserting the chassis into the REAR COVER groove.

3.2.2 REMOVING THE SPEAKER (Fig.2)

- Remove the REAR COVER.
 - (1) Remove the 2 screws [C].
 - (2) Remove the SPEAKER toward you.
 - (3) Follow the same steps when removing the other hand SPEAKER.

3.2.3 REMOVING THE AV TERMINAL BOARD (Fig.2)

- Remove the REAR COVER.
 - (1) Remove the 5 screws [D] and 1 screw [E].
 - (2) Withdraw the AV TERMINAL BOARD toward you.

3.2.4 REMOVING THE CHASSIS (Fig.2)

- Remove the REAR COVER.
 - (1) Slightly raise the both sides of the CHASSIS by hand and remove the 2 claws under the both sides of the CHASSIS from the front cabinet.
 - (2) Withdraw the CHASSIS backward.
(If necessary, remove the wire clamps, connectors etc.)

3.2.5 REMOVING THE FRONT SW PWB (Fig.2)

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) Remove the 2 screws [F].
 - (2) Remove the FRONT SW PWB.

3.2.6 REMOVING THE FRONT CONTROL PWB (Fig.2)

- Remove the REAR COVER.
- Remove the CHASSIS.
 - (1) Remove the 2 screws [G].
 - (2) Remove the FRONT CONTROL PWB.

3.2.7 REMOVING THE SD CARD PWB (Fig.2)

- Remove the REAR COVER.
- Remove the AV TERMINAL BOARD.
 - (1) Remove the 2 screws [H].
 - (2) Remove the SD CARD PWB.

3.2.8 CHECKING THE PW BOARD (Fig.2)

- To check the PW Board from backside.
 - (1) Pull out the CHASSIS. (Refer to REMOVING THE CHASSIS).
 - (2) Erect the CHASSIS vertically with the HVT side facing up so that you can easily check the back side of the PW Board.

CAUTION:

- When erecting the CHASSIS, be careful so that there will be no contact with other PWB.
- Before turning the power on, make sure that the CRT earth wire and other connectors are properly connected.

3.2.9 WIRE CLAMPING AND CABLE TYING (Fig.2)

- (1) Be sure to clamp the wire.
- (2) Never remove the cable tie used for tying the wires together.
Should it be inadvertently removed, be sure to tie the wires with a new cable tie.

CAUTION :

Make sure to perform the "SYSTEM SETTING" according to before page, when DIGITAL SIGNAL PWB is replaced.

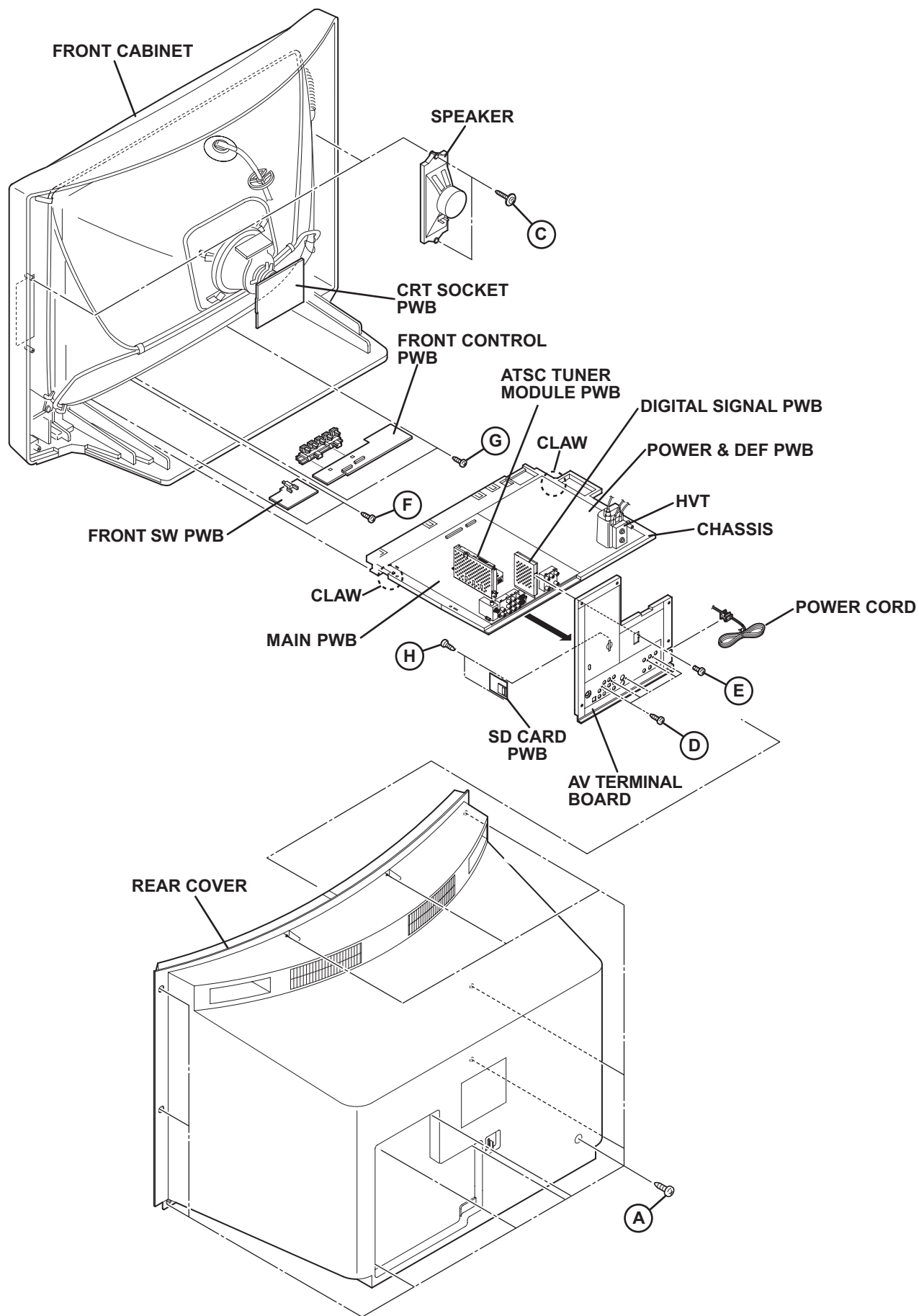


Fig.2

3.2.10 REMOVING THE CRT

NOTE:

- Replacement of the CRT should be performed by 2 or more persons.
 - After removing the REAR COVER, CHASSIS etc.,
- (1) Putting the CRT change table on soft cloth, the CRT change table should also be covered with such soft cloth (shown in Fig. 3).
 - (2) While keeping the surface of CRT down, mount the TV set on the CRT change table balanced will as shown in Fig. 3.
 - (3) Remove 4 screws marked by arrows with a box type screwdriver as shown in Fig. 4.

NOTE:

Since the cabinet will drop when screws have been removed, be sure to support the cabinet with hands.

- (4) After 4 screws have been removed, put the cabinet slowly on cloth (At this time, be carefully so as not to damage the front surface of the cabinet) shown in Fig. 5.

NOTE:

- The CRT should be assembled according to the opposite sequence of its dismantling steps.
- The CRT change table should preferably be smaller than the CRT surface, and its height be about 35cm.

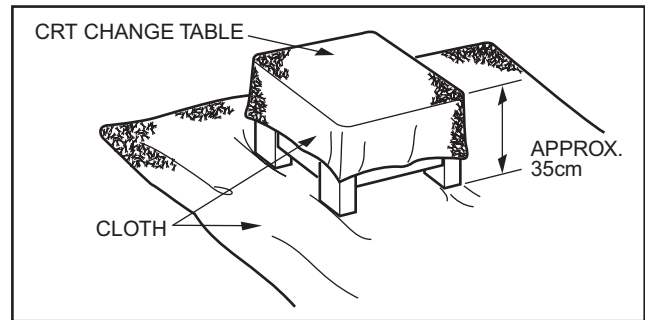


Fig.3

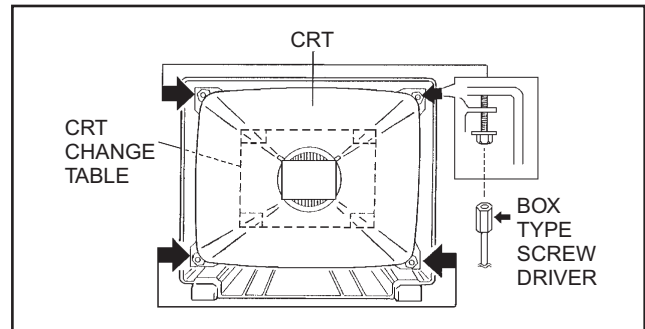


Fig.4

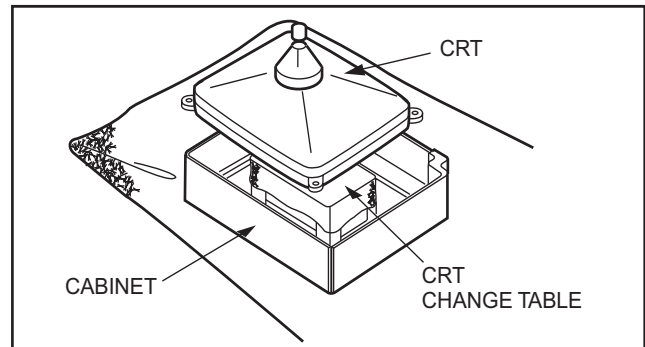


Fig.5

COATING OF SILICON GREASE FOR ELECTRICAL INSULATION ON THE CRT ANODE CAP SECTION.

Subsequent to replacement of the CRT and HV transformer or repair of the anode cap, etc. by dismantling them, be sure to coat silicon grease for electrical insulation as shown in Fig.6. Wipe around the anode button with clean and dry cloth. (Fig.6) Coat silicon grease on the section around the anode button. At this time, take care so that any silicon greases dose not sticks to the anode button. (Fig.7)

Silicon grease product No. KS - 650N

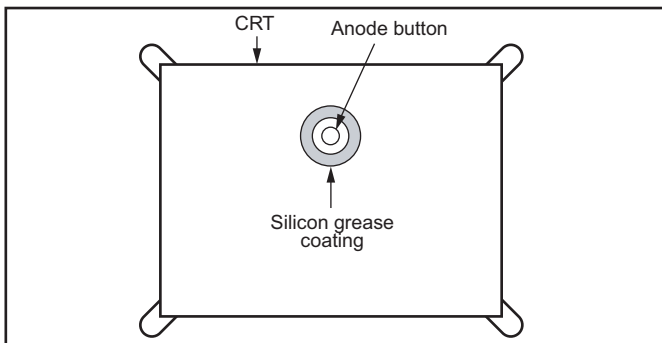


Fig.6

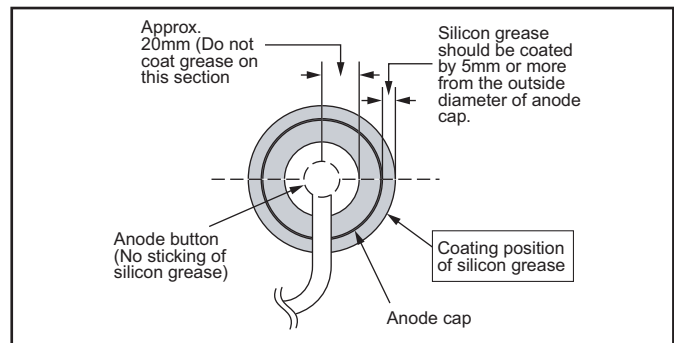


Fig.7

3.3 MEMORY IC REPLACEMENT

- This model uses the memory IC.
- This memory IC stores data for proper operation of the video and drive circuits.
- When replacing, be sure to use an IC containing this (initial value) data.

3.3.1 MEMORY IC LIST

Symbol	Number of pins	Mounting PWB	Main content of data
IC1803	8-pin	MAIN PWB	Initial setting data is memorized.

3.3.2 MEMORY IC REPLACEMENT PROCEDURE

1. POWER OFF

Switch off the power and disconnect the power plug.

2. REPLACE THE MEMORY IC

Be sure to use the memory IC written with the initial setting values.

3. POWER ON

Connect the power plug to the AC outlet and switch on the power.

4. RECEIVING CHANNEL SETTING

Refer to the OPERATING INSTRUCTIONS and set the receive channels (Channels Preset) as described.

5. USER SETTING

Check the user setting items according to the given in page later. Where these do not agree, refer to the OPERATING INSTRUCTIONS and set the items as described.

6. SERVICE MODE SETTING

Verify what to set in the SERVICE MODE, and set whatever is necessary. Refer to the INITIAL SETTING VALUE OF SERVICE MODE.

3.3.3 SERVICE ADJUSTMENT ITEM

SERVICE MODE MAIN MENU

- | | |
|-----------------|------------|
| 1.PICTURE/SOUND | 7.CONVER B |
| 2.YC SEP | 8.IP |
| 3.WHITE BALANCE | 9.DSD |
| 4.MEMORY SETUP | 0.HDMI |
| 5.RF AFC | |
| 6.CONVER A | |

Setting items	Settings	Item No.
1.PICTURE/SOUND (Video / Audio setting)		
Audio circuits (A)	Adjust	A01 to A27
Video circuits (S)	Adjust	S01 to S99
Deflection circuits (D)	Adjust	D01 to D32
Factory setting items (F)	Fixed	F01 to F85
2.YC SEP (3D YC separation setting) [Do not adjust]		
	Fixed	YCM001 to YCM131
3.WHITE BALANCE (White balance adjustment)		
	Adjust	BR DRV R DRV B CUT R CUT G CUT B
4.MEMORY SETUP (Memory data edit) [Do not adjust]		
5.RF AFC (AFC setting) [Do not adjust]		
	Fixed	---
6.CONVER A (Convergence adjustment) [Do not adjust]		
7.CONVER B (Convergence adjustment) [Do not adjust]		
8.IP (DIST processing setting) [Do not adjust]		
	Fixed	IPA001 to IPA042
9.DSD (Digital super detail setting) [Do not adjust]		
	Fixed	DSA001 to DSA053
	Fixed	DSB001 to DSB053
	Fixed	DSC001 to DSC044
	Fixed	DSD001 to DSD017
0.HDMI (Digital input processing setting) [Do not adjust]		
	Fixed	HDM001 to HDM080
	Fixed	RHD001 to RHD170

3.3.4 SETTINGS OF FACTORY SHIPMENT

3.3.4.1 BUTTON OPERATION

Setting item	Setting position
POWER	Off
CHANNEL	CABLE-02
VOLUME	10

3.3.4.2 REMOTE CONTROL DIRECT OPERATION

Setting item	Setting position
INPUT	TV
CHANNEL	CABLE-02
VOLUME	10
MUTING	OFF
DISPLAY	OFF
ASPECT	4:3
OFF TIMER	OFF
THEATER PRO	OFF
VIDEO STATUS	DYNAMIC
CLOSED CAPTION	OFF
SOUND	HYPER SORROUND
	BBE
	SMART SOUND
MTS	STEREO

3.3.4.3 REMOTE CONTROL MENU OPERATION

1. SOUND ADJUST

Setting item	Setting position
BASS	00
TREBLE	00
BALANCE	00

2. CLOCK / TIMERS

Setting item	Setting position
SET CLOCK	MANUAL
ON / OFF TIMER	NO

3. INITIAL SETUP

Setting item	Setting position
DIGITAL-IN	AUTO
DIGITAL-AUDIO	AUTO
NOISE MUTING	ON
FRONT PANEL LOCK	OFF
V1 SMART INPUT	OFF
VIDEO INPUT LABEL	All blank
LANGUAGE	ENG.
CLOSED CAPTION	OFF (CC1,T1)
AUTO SHUT OFF	OFF
V-CHIP	OFF
XDS ID	ON

4. PICTURE ADJUST

Customers can adjust the picture setting of menu screen as their own like but the picture standard value during factory shipment is as below.

< NTSC MODE >

Setting item	TINT	COLOR	PICTURE	BRIGHT	DETAIL	COLOR TEMPERATURE	DIG. NOISE CLEAR	NATURAL CINEMA	VSM
STANDARD	00	00	00	00	00	LOW	OFF	AUTO	ON
DINAMIC	00	00	+05	00	+03	HIGH	OFF	AUTO	ON
THEATER	00	00	00	00	00	HIGH	OFF	AUTO	ON
GAME	00	00	-10	00	0	HIGH	OFF	AUTO	ON

< HD MODE >

Setting item	TINT	COLOR	PICTURE	BRIGHT	DETAIL	COLOR TEMPERATURE	DIG. NOISE CLEAR	NATURAL CINEMA	VSM
STANDARD	00	00	00	00	00	LOW	OFF	AUTO	ON
DINAMIC	00	00	+05	00	+10	HIGH	OFF	AUTO	ON
THEATER	00	00	00	00	00	LOW	OFF	AUTO	ON
GAME	00	00	-10	00	00	HIGH	OFF	AUTO	ON

3.4 REPLACEMENT OF CHIP COMPONENT

3.4.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.4.2 SOLDERING IRON

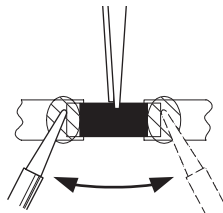
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.4.3 REPLACEMENT STEPS

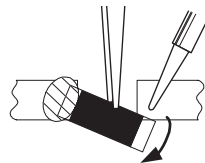
1. How to remove Chip parts

[Resistors, capacitors, etc.]

- (1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



- (2) Shift with the tweezers and remove the chip part.

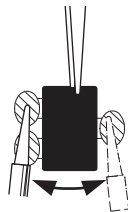


[Transistors, diodes, variable resistors, etc.]

- (1) Apply extra solder to each lead.



- (2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



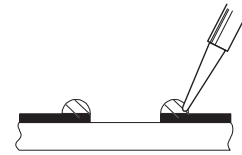
NOTE :

After removing the part, remove remaining solder from the pattern.

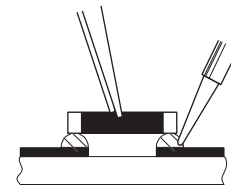
2. How to install Chip parts

[Resistors, capacitors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.

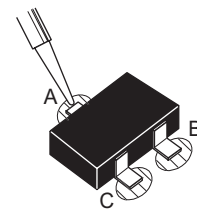


- (2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

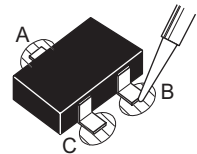


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead **A** as indicated in the figure.



- (4) Then solder leads **B** and **C**.



SECTION 4 ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) There are 2 ways of adjusting this TV : One is with the **REMOTE CONTROL UNIT** and the other is the conventional method using adjustment parts and components.
- (2) The adjustment using the **REMOTE CONTROL UNIT** is made on the basis of the initial setting values. The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- (3) Make sure that connection is correctly made AC to AC power source.
- (4) Turn on the power of the TV and measuring instruments for warning up for at least 30 minutes before starting adjustments.
- (5) If the receive or input signal is not specified, use the most appropriate signal for adjustment.
- (6) Never touch the parts (such as variable resistors, transformers and condensers) not shown in the adjustment items of this service adjustment.

4.2 PRESET SETTING BEFORE ADJUSTMENTS

Unless otherwise specified in the adjustment items, preset the following functions with the **REMOTE CONTROL UNIT**.

Item	Preset value
VIDEO STATUS	STANDARD
TINT, COLOR, PICTURE, BRIGHT, DETAIL	Center (00)
COLOR TEMPERATURE	LOW
DIG. NOISE CLEAR	OFF
NATURAL CINEMA	AUTO
BASS, TREBLE, BALANCE	Center (00)
HYPER SORROUND	OFF
BBE	ON
ASPECT	4 : 3

4.3 MEASURING INSTRUMENT AND FIXTURES

- DC voltmeter (or digital voltmeter)
- Oscilloscope
- Frequency counter
- Signal generator (Pattern generator)
[NTSC (480i) / 480p / 1080i]
- TV audio multiplex signal generator
- Remote control unit

4.4 ADJUSTMENT ITEMS

■ CHECK ITEM

- B1 VOLTAGE check
- HIGH VOLTAGE HOLD DOWN CIRCUIT check

■ FOCUS

- FOCUS adjustment

■ DEFLECTION CIRCUIT

- V. POSITION / V. SIZE / V. LINEARITY adjustment
- H. POSITION / H. SIZE / SIDE PIN / TRAPEZIUM adjustment

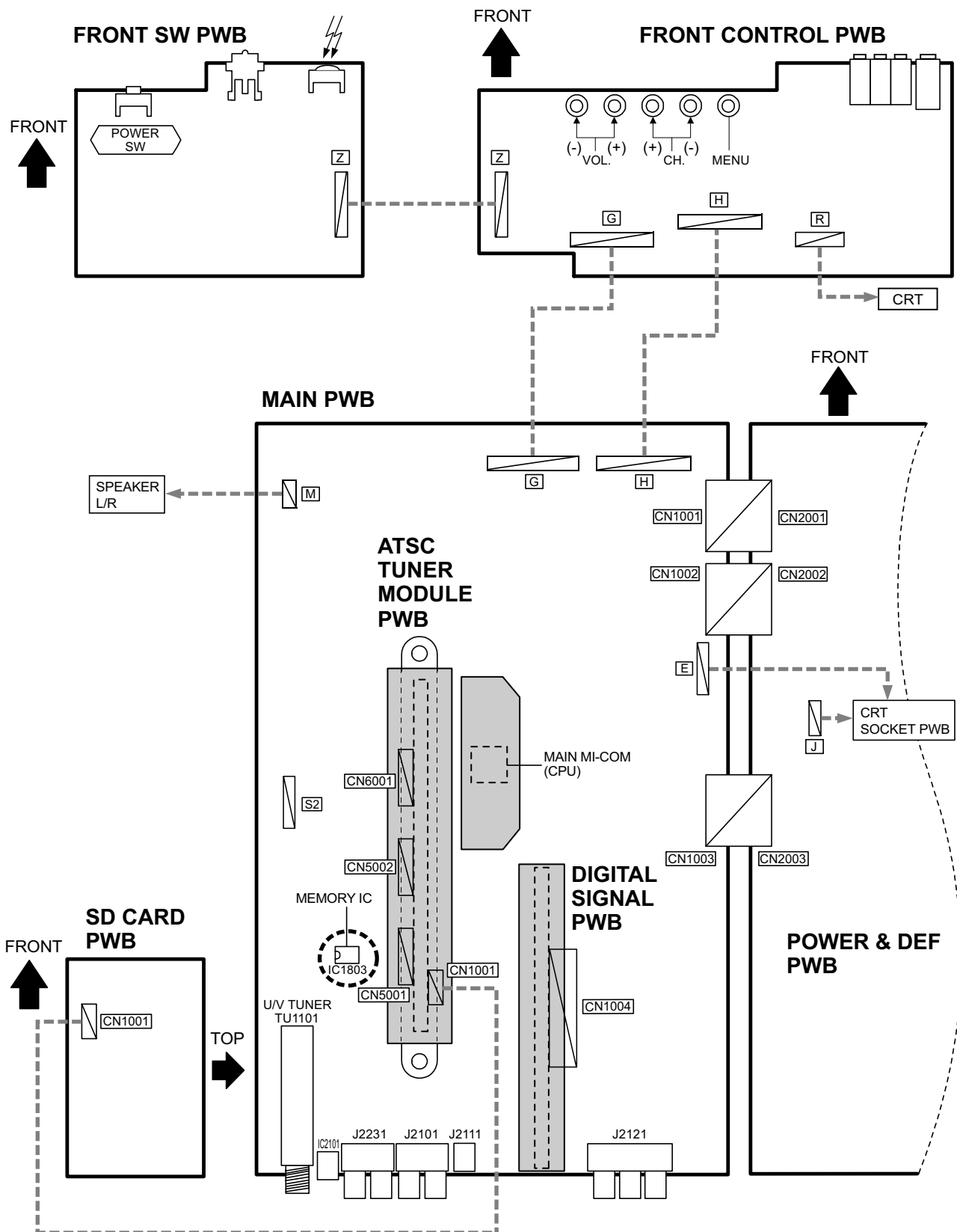
■ VIDEO CIRCUIT

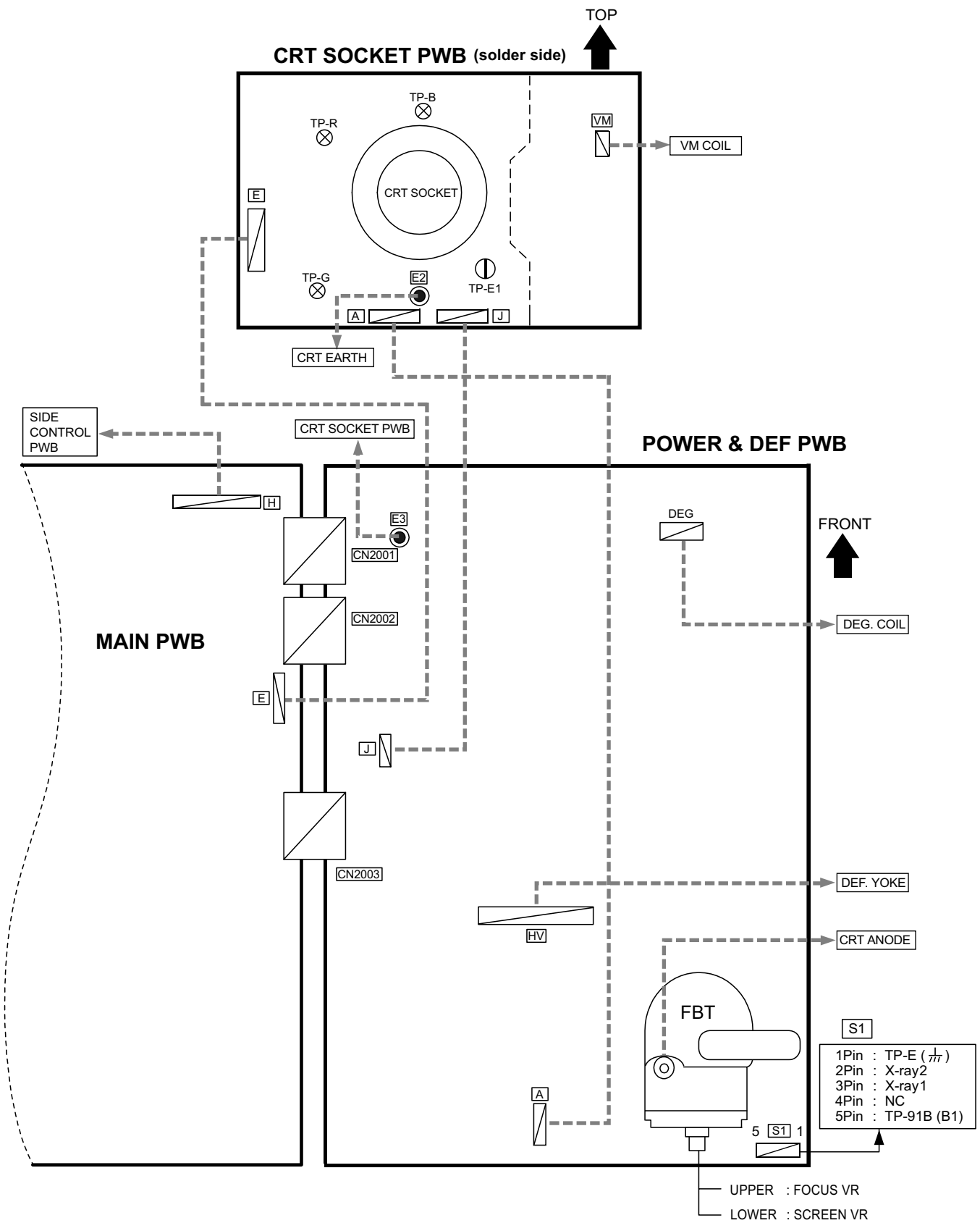
- WHITE BALANCE(High Light & Low Light) adjustment
- SUB BRIGHT adjustment
- SUB CONTRAST adjustment
- SUB COLOR / SUB TINT / B-Y GAIN (1) adjustment
- SUB COLOR / SUB TINT / B-Y GAIN (2) adjustment

■ MTS CIRCUIT

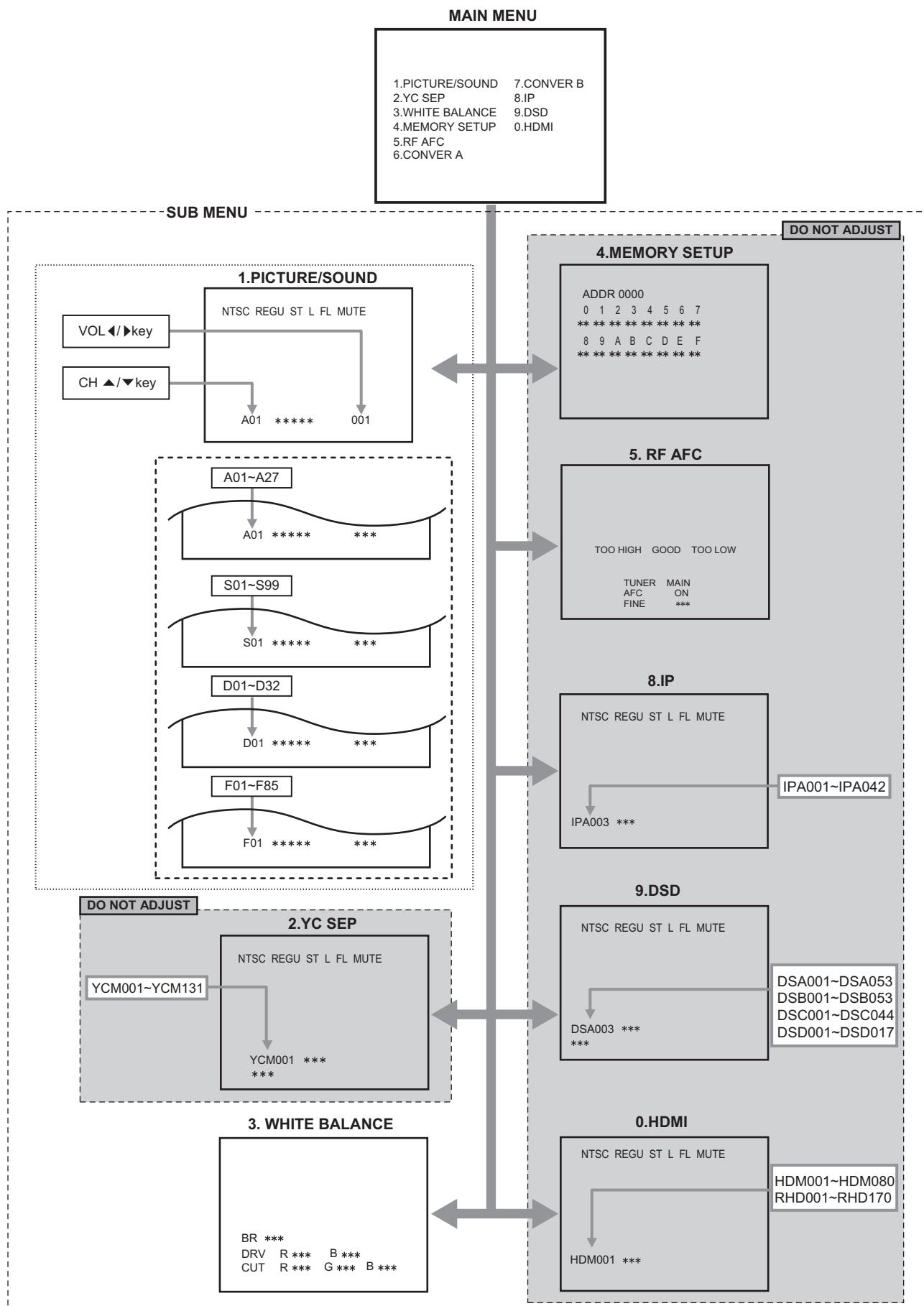
- MTS INPUT LEVEL adjustment
- MTS SEPARATION adjustment

4.5 ADJUSTMENT LOCATIONS / WIRING





4.6 BASIC OPERATION OF SERVICE MODE



4.6.1 TOOL OF SERVICE MODE OPERATION

Operate the SERVICE MODE with the REMOTE CONTROL UNIT.

4.6.2 SERVICE MODE ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MODE.

1.PICTURE/SOUND	This sets the setting values of the Video / Audio / Deflection circuits.
2.YC SEP	This is used when the YC separation circuit is adjusted. [Do not adjust]
3.WHITE BALANCE	This sets the setting values of the WHITE BALANCE.
4.MEMORY SETUP	This sets the setting values of the MEMORY ADDRESS. [Do not adjust]
5.RF AFC	This is used when the IF VCO is adjusted. [Do not adjust]
8.IP	This sets the setting value of the DIST circuit. [Do not adjust]
9.DSD	This sets the setting value of the DSD (Digital super detail) circuit. [Do not adjust]
0.HDMI	This sets the setting value of the Digital input circuit. [Do not adjust] .

4.6.3 HOW TO ENTER THE SERVICE MODE

- (1) Set the SLEEP TIMER to 0 minutes using the [SLEEP TIMER] key.
- (2) Press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the SERVICE MODE.
- (3) When the main menu is displayed, press any key of the [0] to [9] key to enter the corresponding sub menu mode.

NOTE:

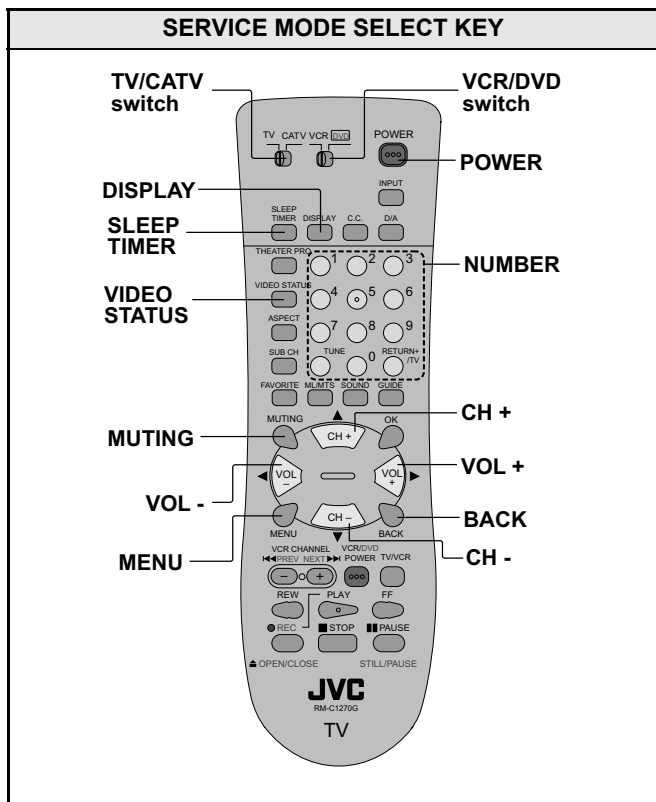
Before entering the SERVICE MODE, confirm that the setting of TV / CATV switch of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD switch is at the "VCR" side. If the switches have not been properly set, you cannot enter the SERVICE MODE.

4.6.4 HOW TO STORE OF SETTING VALUE

When adjustment is completed, press the [MUTING] key to memorize the adjustment value. If not to do it, adjustment data is not memorized to the memory IC. And if exit the adjustment mode before memorize the data, the adjustment value which you change is canceled.

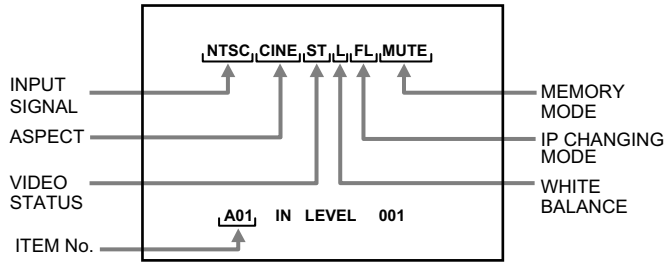
4.6.5 HOW TO EXIT THE SERVICE MODE

Press the [BACK] key to exit the SERVICE MODE.



4.6.6 DESCRIPTION OF STATUS DISPLAY

The status display on the upper part of the SERVICE MODE screen is common (to all models).



(1) INPUT SIGNAL

NTSC	: Composite, S-video (Y / C), RF, No signal
DVD	: 480i (component)
ED	: 480p
HD	: 1080i
750p	: 720p
HDVD	: HDMI 480i
HED1	: HDMI 480p SIZE1
HED2	: HDMI 480p SIZE2
HHD	: HDMI 1080i
H750	: HDMI 720p
ADVD	: ATSC 480i
AED	: ATSC 480p
AHD	: ATSC 1080i
A750	: ATSC 720p

(2) ASPECT

FULL	: FULL
PANO	: PANORAMA
CINE	: CINEMA
REGU	: REGULAR

(3) VIDEO STATUS

ST	: STANDARD
DA	: DYNAMIC
TH	: THEATER
GA	: GAME

(4) WHITE BALANCE

H	: HIGH
L	: LOW

(5) IP CHANGING MODE

FL	: FRAME
LI	: LINE
23	: COMPULSORY NATURAL CINEMA IN

(6) MEMORY MODE

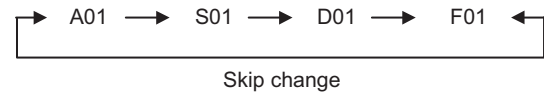
MUTE	: Press [MUTING] key
DIR	: Store the data to the memory at the same time.

4.6.7 SERVICE MODE SETTING

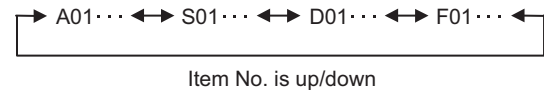
1. PICTURE / SOUND

Audio, video and Deflection circuit adjustment.

- Press [SLEEP TIMER] key
For skipping the adjustment item.



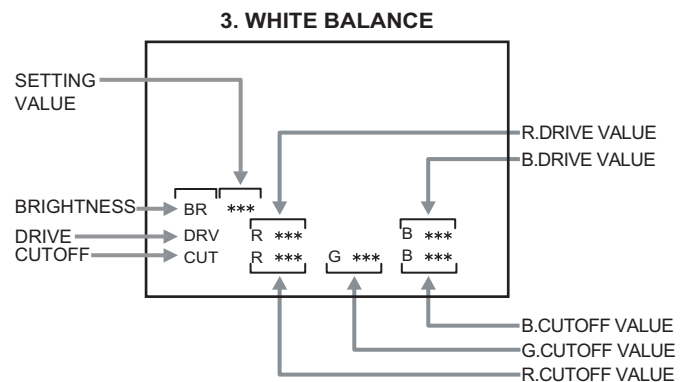
- Press [CH+] / [CH-] key
For scrolling up/down the adjustment item.



- Press [VOL+] / [VOL-] key
For scrolling up/down the data values.
- Press [MUTING] key
For memorizing the data values.

3. WHITE BALANCE

White balance data adjustment.



BRIGHTNESS

[VOL+] key	: BRIGHT is up
[VOL-] key	: BRIGHT is down

DRIVE

[2] key	: DRIVE R is up
[5] key	: DRIVE R is down
[3] key	: DRIVE B is up
[6] key	: DRIVE B is down

CUTOFF

[7] key	: CUTOFF G is up
[TUNE] key	: CUTOFF G is down
[8] key	: CUTOFF R is up
[0] key	: CUTOFF R is down
[9] key	: CUTOFF B is up
[RETURN+] key	: CUTOFF B is down

- Press [MUTING] key
For memorizing the data values.

4.7 INITIAL SETTING VALUE OF SERVICE MODE

- (1) Adjustment of the SERVICE MODE is made on the basis of the initial setting values. however, the new setting values which displays on the screen in its optimum condition may differ from the initial setting value.
- (2) Do not change the initial setting values of the items not listed in "ADJUSTMENT PROCEDURE".
- (3) "---" is impossible to adjust.

4.7.1 [1.PICTURE/SOUND]

4.7.1.1 AUDIO SETTING

Item No.	Item	Variable range	Setting value
A01	IN LEVEL	000 to 015	008
A02	LOW SEP	000 to 063	012
A03	HI SEP	000 to 063	024
A04	BBE BASS	-128 to +127	+010
A05	BBE TRE	-128 to +127	000
A06	SURROUND	000 to 001	000
A07	BASS OFS	-128 to +127	-017
A08	TRE OFS	-128 to +127	-009
A09	(Not display)	000/001	000
A10	(Not display)	000/001	000
A11	(Not display)	000/001	000
A12	(Not display)	000/001	000
A13	(Not display)	000/001	000
A14	(Not display)	000/001	000
A15	(Not display)	000/001	000
A16	(Not display)	000/001	000
A17	(Not display)	000/001	000
A18	(Not display)	000/001	000
A19	(Not display)	000/001	000
A20	(Not display)	000/001	000
A21	(Not display)	000/001	000
A22	(Not display)	000/001	000
A23	(Not display)	000/001	000
A24	(Not display)	000/001	000
A25	(Not display)	000/001	000
A26	(Not display)	000/001	000
A27	(Not display)	000/001	000

4.7.1.2 DEFLECTION SETTING

Item No.	Item	Variable range	Setting value
D01	V.SIZE	000 to 127	054
D02	EW	000 to 063	032
D03	H.SIZE	000 to 063	040
D04	V.SCORE	000 to 015	006
D05	V.LINE	000 to 015	008
D06	V.CENT	000 to 063	026
D07	EW.TRAP	000 to 063	028
D08	BOT.CORN	000 to 063	032
D09	TOP.CORN	000 to 063	032
D10	V.EHT	000 to 015	000
D11	H.EHT	000 to 015	015
D12	(Not display)	000/001	000
D13	(Not display)	000/001	000
D14	H.CENTER	000 to 127	100
D15	(Not display)	000/001	000
D16	OSD OFST	000 to 127	100
D17	(Not display)	000/001	000
D18	(Not display)	000/001	000
D19	BOW	000 to 015	008
D20	V.AGC	000/001	001
D21	V.FERQ	000 to 007	003
D22	V.LINE	000 to 007	004
D23	H.STOP	000/001	000
D24	H.DUTY	000/001	000
D25	V.JUMP	000/001	000
D26	V.PHASE	000/001	000
D27	V.RAMP	000 to 063	000
D28	PARALLEL	000 to 015	008
D29	V.BTMLK	000 to 015	015
D30	V.TOPBLK	000 to 063	000
D31	(Not display)	000/001	000
D32	(Not display)	000/001	000

4.7.1.3 VIDEO SETTING

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S01	COLOR	000 to 255	116	---	085	---	087	---	080	---
S02	TINT	000 to 255	071	---	056	---	061	---	081	---

Item No.	Item	Variable range	Setting value					
			NTSC		480i / 480p		720p/ 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S03	BRIGHT	000 to 255	133	---	125	---	131	---
S04	CONTRAST	000 to 127	045	---	052	---	048	---

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S05	O MTX SW	000 to 003	000	000	000	000	000	000	000	000
S06	INPUT SW	000 to 003	001	001	001	001	001	001	000	000
S07	B-Y	000 to 063	009	017	017	022	017	014	003	014
S08	R-Y	000 to 015	007	000	007	002	007	002	007	003
S09	G-YMATRI	000 to 003	002	003	001	003	001	003	002	002

Item No.	Item	Variable range	Setting value							
			NTSC				480i			
			STANDARD		THEATER		STANDARD		THEATER	
			HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
S10	DRIVE R	000 to 255	---	148	---	---	---	147	---	---
S11	(Not display)	-128 to 127	+006	---	+007	+020	+008	---	+012	+016
S12	DRIVE B	000 to 255	---	136	---	---	---	134	---	---
S13	(Not display)	-128 to 127	+004	---	-010	-016	+002	---	-018	-030

Item No.	Item	Variable range	Setting value							
			480p				720p / 1080i			
			STANDARD		THEATER		STANDARD		THEATER	
			HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
S10	DRIVE R	000 to 255	---	---	---	---	---	136	---	---
S11	(Not display)	-128 to +127	-008	-004	-001	+014	+006	---	+012	+015
S12	DRIVE B	000 to 255	---	---	---	---	---	136	---	---
S13	(Not display)	-128 to +127	+007	000	-013	-028	+006	---	-012	-026

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S14	CUTOFF R	000 to 255	227	---	227	---	---	---	227	---
S15	(Not display)	-128 to +127	---	+005	---	-006	---	-006	---	-006
S16	CUTOFF G	000 to 255	169	---	183	---	---	---	171	---
S17	(Not display)	-128 to +127	---	-013	---	000	---	000	---	+006
S18	CUTOFF B	000 to 255	233	---	238	---	---	---	214	---
S19	(Not display)	-128 to +127	---	+017	---	+011	---	+011	---	+002

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S20	CUTOFSWR	000 to 003	001	---	001	---	---	---	001	---
S21	CUTOFSWG	000 to 003	001	---	001	---	---	---	001	---
S22	CUTOFSWB	000 to 003	001	---	001	---	---	---	001	---

Item No.	Item	Variable range	Setting value					
			NTSC		480i		OTHERS	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S23	DC CTL	000 to 255	255	000	000	255	000	255

Item No.	Item	Variable range	Setting value
S24	RGBLIMIT	000 to 015	000

Item No.	Item	Variable range	Setting value		
			NTSC	480i/480p	OTHERS
S25	BL STRT	000 to 015	015	015	015
S26	BL GAIN	000 to 015	015	015	015
S27	YGM LVL	000 to 015	000	000	000
S28	YGM GAIN	000 to 015	015	015	015
S29	YWD STRT	000 to 015	002	002	000
S30	YWD GAIN	000 to 015	000	000	000

Item No.	Item	Variable range	Setting value							
			NTSC		480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S31	COL OFST	-128 to +127	---	000	---	+008	---	+007	---	+008
S32	TNT OFST	-128 to +127	---	+005	---	+018	---	+020	---	+006
S33	BRT OFST	-128 to +127	---	+004	---	+005	---	+005	---	+014
S34	CNT OFST	-128 to +127	---	000	---	+013	---	+013	---	+012

Item No.	Item	Variable range	Setting value					
			ATSC 480i		ATSC 480p		ATSC 720p / ATSC 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S31	COL OFST	-128 to +127	000	+008	000	+007	+002	+008
S32	TNT OFST	-128 to +127	+010	+018	000	+020	+004	+006
S33	BRT OFST	-128 to +127	+005	+005	+005	+005	+015	+014
S34	CNT OFST	-128 to +127	+002	+013	+002	+013	000	+012

Item No.	Item	Variable range	Setting value	
			STANDARD	THEATER
S35	DCTRN SW	000/001	000	000
S36	BL OFF	000/001	000	001
S37	YGM OFF	000/001	000	001
S38	ABL OFF	000/001	000	000
S39	ACL OFF	000/001	000	000

Item No.	Item	Variable range	Setting value
S40	BLCNT LK	000/001	000
S41	YGCNT LK	000/001	000
S42	DCTRN PL	000/001	000
S43	ABL GAIN	000/001	015
S44	ABL STRT	000 to 015	015
S45	ACL GAIN	000 to 015	015
S46	ACL STRT	000 to 015	000

Item No.	Item	Variable range	Setting value			
			STANDARD	DYNAMIC	THEATER	GAME
S47	ACL EERG	000 to 255	255	255	255	255

Item No.	Setting item	Variable range	Setting value
S48	CHRM GM	000 to 255	255
S49	OSDR DC	000 to 127	064
S50	OSDB DC	000 to 127	064
S51	BLK OFF	000 to 001	000

Item No.	Item	Variable range	Setting value	
			STANDARD	THEATER
S52	CNT UNDR	-128 to +127	-041	-027
S53	CNT UPPR	-128 to +127	+017	+017
S54	BRT UNDR	-128 to +127	-017	-017

Item No.	Setting item	Variable range	Setting value
S55	EETH BRT	-128 to +127	000
S56	EETH CNT	-128 to +127	000
S57	BREE CNT	000 to 031	000
S58	DKEE CNT	000 to 031	000
S59	DREE BRT	000 to 127	000
S60	BREE ACL	000 to 255	000
S61	DKEE ACL	000 to 255	000
S62	VMOFF DE	-128 to +127	+002
S63	VM LOW	-128 to +127	-025
S64	VM MID	-128 to +127	-015
S65	VM HIGH	-128 to +127	+010
S66	VM L-	-128 to +127	-004
S67	VM LH	-128 to +127	-002
S68	VM MH	-128 to +127	000
S69	VM M+	-128 to +127	+001
S70	BLK R	000/001	000
S71	BLK G	000/001	000
S72	BLK B	000/001	000
S73	(Not display)	000/001	000
S74	(Not display)	000/001	000
S75	(Not display)	000/001	000
S76	(Not display)	000/001	000
S77	(Not display)	000/001	000
S78	(Not display)	000/001	000
S79	(Not display)	000/001	000
S80	(Not display)	000/001	000
S81	(Not display)	000/001	000
S82	(Not display)	000/001	000
S83	(Not display)	000/001	000
S84	(Not display)	000/001	000
S85	(Not display)	000/001	000
S86	(Not display)	000/001	000
S87	(Not display)	000/001	000
S88	(Not display)	000/001	000
S89	(Not display)	000/001	000
S90	(Not display)	000/001	000
S91	(Not display)	000/001	000
S92	(Not display)	000/001	000
S93	(Not display)	000/001	000
S94	(Not display)	000/001	000
S95	(Not display)	000/001	000
S96	(Not display)	000/001	000
S97	(Not display)	000/001	000
S98	(Not display)	000/001	000
S99	(Not display)	000/001	000

4.7.1.4 FACTRY SETTING (*All the values are fixed values)

Item No.	Setting item	Variable range	Setting value
F01	E1	000 to 255	009
F02	E2	000 to 255	003
F03	(Not display)	000 to 255	127
F04	(Not display)	000/001	000
F05	(Not display)	000 to 255	121
F06	(Not display)	000 to 255	249
F07	(Not display)	000 to 255	127
F08	(Not display)	000 to 255	000
F09	(Not display)	000 to 015	000
F10	(Not display)	000 to 015	000
F11	(Not display)	000 to 015	000
F12	(Not display)	000 to 015	000
F13	(Not display)	000 to 015	000
F14	(Not display)	000 to 015	000
F15	(Not display)	000 to 015	000
F16	(Not display)	000 to 127	070
F17	(Not display)	000/001	000
F18	(Not display)	000/001	000
F19	(Not display)	000/001	000
F20	(Not display)	000 to 255	000
F21	(Not display)	000 to 255	000
F22	(Not display)	000/001	000
F23	(Not display)	000 to 255	000
F24	(Not display)	000 to 255	000
F25	(Not display)	000 to 255	000
F26	(Not display)	000 to 255	000
F27	(Not display)	000 to 255	000
F28	(Not display)	000/001	000
F29	(Not display)	000/001	000
F30	(Not display)	000/001	000
F31	(Not display)	000/001	000
F32	(Not display)	000/001	000
F33	(Not display)	000/001	000
F34	(Not display)	000/001	000
F35	(Not display)	000/001	000
F36	(Not display)	000/001	000
F37	(Not display)	000/001	000
F38	(Not display)	000/001	000
F39	(Not display)	000/001	000
F40	(Not display)	000/001	000
F41	(Not display)	000 to 003	000
F42	(Not display)	000/001	000
F43	(Not display)	000 to 063	000
F44	(Not display)	000/001	000
F45	(Not display)	000/001	000

Item No.	Setting item	Variable range	Setting value
F46	(Not display)	000/001	000
F47	(Not display)	000/001	000
F48	(Not display)	000/001	000
F49	(Not display)	000/001	001
F50	(Not display)	000/001	001
F51	(Not display)	000 to 015	011
F52	(Not display)	000 to 063	055
F53	(Not display)	-128 to +127	000
F54	(Not display)	000 to 255	015
F55	(Not display)	000 to 255	000
F56	(Not display)	000 to 255	188
F57	(Not display)	000 to 255	134
F58	(Not display)	000 to 255	077
F59	(Not display)	000/001	001
F60	(Not display)	000/001	000
F61	(Not display)	000/001	001
F62	(Not display)	000/001	000
F63	(Not display)	-128 to +127	+015
F64	(Not display)	-128 to +127	000
F65	(Not display)	-128 to +127	-018
F66	(Not display)	000 to 007	006
F67	(Not display)	000 to 003	000
F68	(Not display)	000 to 255	126
F69	(Not display)	000/001	001
F70	(Not display)	000/001	000
F71	(Not display)	000/001	000
F72	(Not display)	000/001	000
F73	(Not display)	000/001	000
F74	(Not display)	000 to 127	000
F75	(Not display)	000/001	000
F76	(Not display)	000/001	000
F77	(Not display)	000/001	001
F78	(Not display)	000/001	000
F79	(Not display)	000/001	000
F80	(Not display)	000/001	000
F81	(Not display)	000 to 015	001
F82	(Not display)	000/001	000
F83	(Not display)	000/001	000
F84	(Not display)	000/001	001
F85	(Not display)	000/001	001

4.7.2 [2.YC SEP] (*All the values are fixed values)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : 4 : 3
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
YCM001	(Not display)	000 to 015	000
YCM002	(Not display)	000 to 031	000
YCM003	(Not display)	000/001	001
YCM004	(Not display)	000/001	001
YCM005	(Not display)	000/001	001
YCM006	(Not display)	000 to 127	037
YCM007	(Not display)	000/001	000
YCM008	(Not display)	000 to 003	001
YCM009	(Not display)	000 to 003	000
YCM010	(Not display)	000 to 003	000
YCM011	(Not display)	000 to 007	000
YCM012	(Not display)	000 to 007	000
YCM013	(Not display)	000 to 015	008
YCM014	(Not display)	000 to 255	128
YCM015	(Not display)	000 to 255	182
YCM016	(Not display)	000 to 255	128
YCM017	(Not display)	000 to 255	064
YCM018	(Not display)	000 to 127	064
YCM019	(Not display)	000/001	000
YCM020	(Not display)	000 to 255	130
YCM021	(Not display)	000/001	000
YCM022	(Not display)	000 to 255	008
YCM023	(Not display)	000 to 063	002
YCM024	(Not display)	000/001	000
YCM025	(Not display)	000/001	000
YCM026	(Not display)	000/001	000
YCM027	(Not display)	000/001	001
YCM028	(Not display)	000/001	000
YCM029	(Not display)	000/001	000
YCM030	(Not display)	000/001	001
YCM031	(Not display)	000 to 255	089
YCM032	(Not display)	000 to 007	003
YCM033	(Not display)	000 to 255	106
YCM034	(Not display)	000 to 007	005
YCM035	(Not display)	000/001	000
YCM036	(Not display)	000 to 255	130
YCM037	(Not display)	000/001	000
YCM038	(Not display)	000 to 255	008
YCM039	(Not display)	000/001	000
YCM040	(Not display)	000 to 127	094

Item No.	Item name	Variable range	Setting value
YCM041	(Not display)	000/001	000
YCM042	(Not display)	000/001	000
YCM043	(Not display)	000 to 003	000
YCM044	(Not display)	000 to 127	009
YCM045	(Not display)	000/001	000
YCM046	(Not display)	000 to 003	000
YCM047	(Not display)	000/001	000
YCM048	(Not display)	000/001	000
YCM049	(Not display)	000 to 003	001
YCM050	(Not display)	000 to 015	012
YCM051	(Not display)	000 to 015	012
YCM052	(Not display)	000/001	000
YCM053	(Not display)	000/001	000
YCM054	(Not display)	000/001	001
YCM055	(Not display)	000/001	001
YCM056	(Not display)	000/001	000
YCM057	(Not display)	000/001	000
YCM058	(Not display)	000 to 003	001
YCM059	(Not display)	000 to 003	001
YCM060	(Not display)	000 to 003	000
YCM061	(Not display)	000 to 003	000
YCM062	(Not display)	000 to 003	002
YCM063	(Not display)	000 to 003	002
YCM064	(Not display)	000 to 003	000
YCM065	(Not display)	000 to 003	000
YCM066	(Not display)	000/001	000
YCM067	(Not display)	000 to 007	004
YCM068	(Not display)	000/001	001
YCM069	(Not display)	000/001	000
YCM070	(Not display)	000 to 007	004
YCM071	(Not display)	000 to 031	016
YCM072	(Not display)	000 to 003	003
YCM073	(Not display)	000 to 003	000
YCM074	(Not display)	000 to 007	000
YCM075	(Not display)	000/001	001
YCM076	(Not display)	000/001	000
YCM077	(Not display)	000/001	000
YCM078	(Not display)	000 to 003	000
YCM079	(Not display)	000 to 015	002
YCM080	(Not display)	000 to 015	009
YCM081	(Not display)	000 to 015	003
YCM082	(Not display)	000 to 015	006
YCM083	(Not display)	000 to 015	010
YCM084	(Not display)	000 to 015	006
YCM085	(Not display)	000/001	000

Item No.	Item name	Variable range	Setting value
YCM086	(Not display)	000 to 003	001
YCM087	(Not display)	000 to 003	001
YCM088	(Not display)	000 to 015	008
YCM089	(Not display)	000 to 003	003
YCM090	(Not display)	000/001	000
YCM091	(Not display)	000 to 255	128
YCM092	(Not display)	000 to 255	128
YCM093	(Not display)	000 to 255	128
YCM094	(Not display)	000 to 010	000
YCM095	(Not display)	000 to 010	000
YCM096	(Not display)	000 to 010	000
YCM097	(Not display)	000/001	001
YCM098	(Not display)	000 to 007	000
YCM099	(Not display)	000 to 010	000
YCM100	(Not display)	000/001	000
YCM101	(Not display)	000 to 015	000
YCM102	(Not display)	000 to 015	000
YCM103	(Not display)	000 to 007	002
YCM104	(Not display)	000 to 015	003
YCM105	(Not display)	000 to 007	002
YCM106	(Not display)	000 to 015	003
YCM107	(Not display)	000 to 255	128
YCM108	(Not display)	000 to 007	002
YCM109	(Not display)	000 to 015	000
YCM110	(Not display)	000 to 255	128
YCM111	(Not display)	000 to 003	000
YCM112	(Not display)	000 to 063	032
YCM113	(Not display)	000 to 255	123
YCM114	(Not display)	000 to 255	128
YCM115	(Not display)	000 to 255	128
YCM116	(Not display)	000 to 063	048
YCM117	(Not display)	000 to 015	005
YCM118	(Not display)	000 to 015	008
YCM119	(Not display)	000 to 063	016
YCM120	(Not display)	000 to 015	000
YCM121	(Not display)	000 to 255	000
YCM122	(Not display)	000 to 015	000
YCM123	(Not display)	000 to 015	000
YCM124	(Not display)	000 to 255	255
YCM125	(Not display)	000/001	000
YCM126	(Not display)	000/001	000
YCM127	(Not display)	000 to 015	000
YCM128	(Not display)	000 to 255	255
YCM129	(Not display)	000/001	001
YCM130	(Not display)	000 to 003	001

Item No.	Item name	Variable range	Setting value
YCM131	(Not display)	000 to 003	001

4.7.3 [3.WHITE BALANCE]

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : 4 : 3
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
BR	(Not display)	000 to 255	121
DRV R	(Not display)	000 to 255	145
DRV B	(Not display)	000 to 255	131
CUT R	(Not display)	000 to 255	064
CUT G	(Not display)	000 to 255	063
CUT B	(Not display)	000 to 255	087

4.7.4 [8.IP] (*All the values are fixed values)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : 4 : 3
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
IPA001	(Not display)	000 to 0FF	0C7
IPA002	(Not display)	000 to 0FF	000
IPA003	(Not display)	000 to 0FF	000
IPA004	(Not display)	000 to 0FF	08A
IPA005	(Not display)	000 to 01F	001
IPA006	(Not display)	000 to 0FF	037
IPA007	(Not display)	000 to 00F	000
IPA008	(Not display)	000 to 0FF	000
IPA009	(Not display)	000 to 00F	000
IPA010	(Not display)	000 to 0FF	080
IPA011	(Not display)	000 to 00F	002
IPA012	(Not display)	000 to 0FF	02B
IPA013	(Not display)	000 to 00F	002
IPA014	(Not display)	000 to 0FF	000
IPA015	(Not display)	000 to 00F	002
IPA016	(Not display)	000 to 0FF	080
IPA017	(Not display)	000 to 00F	001
IPA018	(Not display)	000 to 0FF	000
IPA019	(Not display)	000 to 00F	001
IPA020	(Not display)	000 to 0FF	080
IPA021	(Not display)	000 to 00F	000
IPA022	(Not display)	000 to 0FF	016

Item No.	Item name	Variable range	Setting value
IPA023	(Not display)	000 to 00F	000
IPA024	(Not display)	000 to 0FF	017
IPA025	(Not display)	000 to 00F	000
IPA026	(Not display)	000 to 0FF	019
IPA027	(Not display)	000 to 00F	000
IPA028	(Not display)	000 to 0FF	01B
IPA029	(Not display)	000 to 00F	000
IPA030	(Not display)	000 to 0FF	01D
IPA031	(Not display)	000 to 00F	000
IPA032	(Not display)	000 to 0FF	000
IPA033	(Not display)	000 to 00F	000
IPA034	(Not display)	000 to 0FF	010
IPA035	(Not display)	000 to 00F	000
IPA036	(Not display)	000 to 0FF	000
IPA037	(Not display)	000 to 00F	00F
IPA038	(Not display)	000 to 0FF	010
IPA039	(Not display)	000 to 00F	000
IPA040	(Not display)	000 to 00F	000
IPA041	(Not display)	000 to 0FF	011
IPA042	(Not display)	000 to 00F	000

4.7.5 [9.DSD] (*All the values are fixed values)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : 4 : 3
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
DSA001	(Not display)	000 to 03F	022
DSA002	(Not display)	000 to 03F	017
DSA003	(Not display)	000 to 03F	030
DSA004	(Not display)	000 to 003	000
DSA005	(Not display)	000/001	000
DSA006	(Not display)	000 to 003	001
DSA007	(Not display)	000 to 03F	010
DSA008	(Not display)	000/001	001
DSA009	(Not display)	000 to 03F	010
DSA010	(Not display)	000/001	001
DSA011	(Not display)	000/001	001
DSA012	(Not display)	000 to 03F	010
DSA013	(Not display)	000 to 03F	025
DSA014	(Not display)	000 to 03F	030
DSA015	(Not display)	000 to 003	001
DSA016	(Not display)	000/001	001
DSA017	(Not display)	000 to 003	001

Item No.	Item name	Variable range	Setting value
DSA018	(Not display)	000 to 03F	000
DSA019	(Not display)	000/001	001
DSA020	(Not display)	000 to 03F	01D
DSA021	(Not display)	000/001	001
DSA022	(Not display)	000 to 03F	00C
DSA023	(Not display)	000/001	001
DSA024	(Not display)	000 to 03F	007
DSA025	(Not display)	000/001	001
DSA026	(Not display)	000 to 03F	02F
DSA027	(Not display)	000/001	001
DSA028	(Not display)	000 to 03F	009
DSA029	(Not display)	000/001	001
DSA030	(Not display)	000/001	001
DSA031	(Not display)	000 to 03F	023
DSA032	(Not display)	000/001	000
DSA033	(Not display)	000 to 003	000
DSA034	(Not display)	000 to 03F	008
DSA035	(Not display)	000/001	001
DSA036	(Not display)	000/001	001
DSA037	(Not display)	000 to 03F	023
DSA038	(Not display)	000/001	000
DSA039	(Not display)	000 to 003	000
DSA040	(Not display)	000 to 03F	008
DSA041	(Not display)	000/001	001
DSA042	(Not display)	000/001	001
DSA043	(Not display)	000/001	001
DSA044	(Not display)	000 to 03F	00D
DSA045	(Not display)	000/001	000
DSA046	(Not display)	000 to 003	002
DSA047	(Not display)	000 to 03F	01A
DSA048	(Not display)	000/001	001
DSA049	(Not display)	000 to 03F	000
DSA050	(Not display)	000/001	001
DSA051	(Not display)	000 to 03F	00F
DSA052	(Not display)	000/001	001
DSA053	(Not display)	000/001	001

Item No.	Item name	Variable range	Setting value
DSB001	(Not display)	000 to 03F	---
DSB002	(Not display)	000 to 03F	---
DSB003	(Not display)	000 to 03F	---
DSB004	(Not display)	000 to 003	---
DSB005	(Not display)	000 to 001	---
DSB006	(Not display)	000 to 003	---
DSB007	(Not display)	000 to 03F	---

Item No.	Item name	Variable range	Setting value
DSB008	(Not display)	000/001	---
DSB009	(Not display)	000 to 03F	---
DSB010	(Not display)	000/001	---
DSB011	(Not display)	000/001	---
DSB012	(Not display)	000 to 03F	---
DSB013	(Not display)	000 to 03F	---
DSB014	(Not display)	000 to 03F	---
DSB015	(Not display)	000 to 003	---
DSB016	(Not display)	000/001	---
DSB017	(Not display)	000 to 003	---
DSB018	(Not display)	000 to 03F	---
DSB019	(Not display)	000/001	---
DSB020	(Not display)	000 to 03F	---
DSB021	(Not display)	000/001	---
DSB022	(Not display)	000 to 03F	---
DSB023	(Not display)	000/001	---
DSB024	(Not display)	000 to 03F	---
DSB025	(Not display)	000/001	---
DSB026	(Not display)	000 to 03F	---
DSB027	(Not display)	000/001	---
DSB028	(Not display)	000 to 03F	---
DSB029	(Not display)	000/001	---
DSB030	(Not display)	000/001	---
DSB031	(Not display)	000 to 03F	---
DSB032	(Not display)	000/001	---
DSB033	(Not display)	000 to 003	---
DSB034	(Not display)	000 to 03F	---
DSB035	(Not display)	000/001	---
DSB036	(Not display)	000/001	---
DSB037	(Not display)	000 to 03F	---
DSB038	(Not display)	000/001	---
DSB039	(Not display)	000 to 003	---
DSB040	(Not display)	000 to 03F	---
DSB041	(Not display)	000/001	---
DSB042	(Not display)	000/001	---
DSB043	(Not display)	000/001	---
DSB044	(Not display)	000 to 03F	---
DSB045	(Not display)	000/001	---
DSB046	(Not display)	000 to 003	---
DSB047	(Not display)	000 to 03F	---
DSB048	(Not display)	000/001	---
DSB049	(Not display)	000 to 03F	---
DSB050	(Not display)	000/001	---
DSB051	(Not display)	000 to 03F	---
DSB052	(Not display)	000/001	---

Item No.	Item name	Variable range	Setting value
DSB053	(Not display)	000/001	---

Item No.	Item name	Variable range	Setting value
DSC001	(Not display)	000 to 00F	008
DSC002	(Not display)	000 to 0FF	098
DSC003	(Not display)	000 to 03F	01B
DSC004	(Not display)	000 to 003	000
DSC005	(Not display)	000 to 0FF	000
DSC006	(Not display)	000/001	000
DSC007	(Not display)	000/001	000
DSC008	(Not display)	000/001	000
DSC009	(Not display)	000 to 00F	000
DSC010	(Not display)	000 to 0FF	000
DSC011	(Not display)	000 to 00F	00F
DSC012	(Not display)	000 to 0FF	0FF
DSC013	(Not display)	000 to 00F	001
DSC014	(Not display)	000 to 0FF	0E8
DSC015	(Not display)	000 to 00F	004
DSC016	(Not display)	000 to 0FF	0FC
DSC017	(Not display)	000 to 00F	000
DSC018	(Not display)	000 to 0FF	000
DSC019	(Not display)	000 to 00F	000
DSC020	(Not display)	000 to 0FF	000
DSC021	(Not display)	000 to 00F	000
DSC022	(Not display)	000 to 0FF	000
DSC023	(Not display)	000 to 00F	000
DSC024	(Not display)	000 to 0FF	000
DSC025	(Not display)	000 to 00F	000
DSC026	(Not display)	000 to 0FF	080
DSC027	(Not display)	000 to 00F	000
DSC028	(Not display)	000 to 0FF	040
DSC029	(Not display)	000 to 00F	005
DSC030	(Not display)	000 to 0FF	040
DSC031	(Not display)	000 to 00F	000
DSC032	(Not display)	000 to 0FF	0C0
DSC033	(Not display)	000 to 00F	000
DSC034	(Not display)	000 to 0FF	080
DSC035	(Not display)	000 to 00F	000
DSC036	(Not display)	000 to 0FF	040
DSC037	(Not display)	000 to 00F	005
DSC038	(Not display)	000 to 0FF	040
DSC039	(Not display)	000 to 00F	000
DSC040	(Not display)	000 to 0FF	0C0
DSC041	(Not display)	000 to 00F	004
DSC042	(Not display)	000 to 0FF	075

Item No.	Item name	Variable range	Setting value
DSC043	(Not display)	000/001	000
DSC044	(Not display)	000/001	000

Item No.	Item name	Variable range	Setting value
DSD001	(Not display)	000 to 255	001
DSD002	(Not display)	000 to 255	002
DSD003	(Not display)	000 to 255	001
DSD004	(Not display)	000 to 255	002
DSD005	(Not display)	000 to 255	001
DSD006	(Not display)	000 to 255	002
DSD007	(Not display)	000 to 255	001
DSD008	(Not display)	000 to 255	002
DSD009	(Not display)	-128 to +127	+001
DSD010	(Not display)	-128 to +127	+001
DSD011	(Not display)	-128 to +127	+002
DSD012	(Not display)	-128 to +127	+002
DSD013	(Not display)	-128 to +127	-001
DSD014	(Not display)	-128 to +127	+001
DSD015	(Not display)	0001 to 0FF1	05C1
DSD016	(Not display)	0001 to 0FF1	08B1
DSD017	(Not display)	0001 to 0FF1	0E21

4.7.6 [0.HDMI] (*All the values are fixed values)

NOTE :

Initial setting value is reference value at following condition.

INPUT SIGNAL : 480p(HDMI, SIZE 1)

ASPECT : 4 : 3

VIDEO STATUS : STANDARD

COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Setting value
HDM001	(Not display)	000/001	000
HDM002	(Not display)	000/001	000
HDM003	(Not display)	000/001	000
HDM004	(Not display)	000/001	000
HDM005	(Not display)	000/001	000
HDM006	(Not display)	000 to 003	002
HDM007	(Not display)	000/001	000
HDM008	(Not display)	000/001	000
HDM009	(Not display)	000/001	000
HDM010	(Not display)	000/001	000
HDM011	(Not display)	000/001	000
HDM012	(Not display)	000/001	000
HDM013	(Not display)	000/001	000
HDM014	(Not display)	000/001	000
HDM015	(Not display)	000/001	000
HDM016	(Not display)	000 to 255	032

Item No.	Item name	Variable range	Setting value
HDM017	(Not display)	000 to 255	032
HDM018	(Not display)	000 to 255	032
HDM019	(Not display)	000/001	001
HDM020	(Not display)	000 to 255	000
HDM021	(Not display)	000 to 007	002
HDM022	(Not display)	000 to 063	006
HDM023	(Not display)	000 to 063	006
HDM024	(Not display)	000 to 063	006
HDM025	(Not display)	000/001	000
HDM026	(Not display)	000 to 003	000
HDM027	(Not display)	000 to 255	180
HDM028	(Not display)	000 to 003	000
HDM029	(Not display)	000 to 255	192
HDM030	(Not display)	000 to 003	000
HDM031	(Not display)	000 to 255	212
HDM032	(Not display)	000 to 003	000
HDM033	(Not display)	000 to 255	191
HDM034	(Not display)	000 to 003	001
HDM035	(Not display)	000 to 255	032
HDM036	(Not display)	000 to 255	032
HDM037	(Not display)	000 to 255	000
HDM038	(Not display)	000 to 255	012
HDM039	(Not display)	000/001	001
HDM040	(Not display)	000/001	001
HDM041	(Not display)	000/001	000
HDM042	(Not display)	000 to 255	001
HDM043	(Not display)	000 to 007	003
HDM044	(Not display)	000 to 003	000
HDM045	(Not display)	000 to 003	000
HDM046	(Not display)	000/001	001
HDM047	(Not display)	000 to 015	007
HDM048	(Not display)	000 to 255	000
HDM049	(Not display)	000 to 255	000
HDM050	(Not display)	000 to 015	000
HDM051	(Not display)	000/001	000
HDM052	(Not display)	000/001	000
HDM053	(Not display)	000/001	000
HDM054	(Not display)	000/001	000
HDM055	(Not display)	000/001	000
HDM056	(Not display)	000/001	000
HDM057	(Not display)	000/001	001
HDM058	(Not display)	000/001	000
HDM059	(Not display)	000/001	001
HDM060	(Not display)	000/001	000
HDM061	(Not display)	000/001	001

Item No.	Item name	Variable range	Setting value
HDM062	(Not display)	000/001	001
HDM063	(Not display)	000/001	000
HDM064	(Not display)	000/001	000
HDM065	(Not display)	000/001	001
HDM066	(Not display)	000/001	000
HDM067	(Not display)	000/001	001
HDM068	(Not display)	000 to 031	004
HDM069	(Not display)	000/001	000
HDM070	(Not display)	000/001	001
HDM071	(Not display)	000/001	000
HDM072	(Not display)	000/001	000
HDM073	(Not display)	000/001	000
HDM074	(Not display)	000 to 031	008
HDM075	(Not display)	000/001	001
HDM076	(Not display)	000/001	001
HDM077	(Not display)	000/001	001
HDM078	(Not display)	000/001	001
HDM079	(Not display)	000/001	001
HDM080	(Not display)	000/001	001

Item No.	Item name	Variable range	Setting value
RHD001	(Not display)	---	001
RHD002	(Not display)	---	000
RHD003	(Not display)	---	042
RHD004	(Not display)	---	099
RHD005	(Not display)	---	000
RHD006	(Not display)	---	000
RHD007	(Not display)	---	05F
RHD008	(Not display)	---	0C3
RHD009	(Not display)	---	046
RHD010	(Not display)	---	08C
RHD011	(Not display)	---	063
RHD012	(Not display)	---	0CB
RHD013	(Not display)	---	08F
RHD014	(Not display)	---	000
RHD015	(Not display)	---	0BD
RHD016	(Not display)	---	028
RHD017	(Not display)	---	000
RHD018	(Not display)	---	069
RHD019	(Not display)	---	08A
RHD020	(Not display)	---	0B7
RHD021	(Not display)	---	02A
RHD022	(Not display)	---	0C6
RHD023	(Not display)	---	0B1
RHD024	(Not display)	---	097

Item No.	Item name	Variable range	Setting value
RHD025	(Not display)	---	096
RHD026	(Not display)	---	000
RHD027	(Not display)	---	000
RHD028	(Not display)	---	000
RHD029	(Not display)	---	000
RHD030	(Not display)	---	000
RHD031	(Not display)	---	000
RHD032	(Not display)	---	000
RHD033	(Not display)	---	0E0
RHD034	(Not display)	---	001
RHD035	(Not display)	---	023
RHD036	(Not display)	---	00A
RHD037	(Not display)	---	000
RHD038	(Not display)	---	000
RHD039	(Not display)	---	000
RHD040	(Not display)	---	000
RHD041	(Not display)	---	000
RHD042	(Not display)	---	000
RHD043	(Not display)	---	000
RHD044	(Not display)	---	000
RHD045	(Not display)	---	000
RHD046	(Not display)	---	000
RHD047	(Not display)	---	00C
RHD048	(Not display)	---	000
RHD049	(Not display)	---	068
RHD050	(Not display)	---	034
RHD051	(Not display)	---	001
RHD052	(Not display)	---	008
RHD053	(Not display)	---	006
RHD054	(Not display)	---	000
RHD055	(Not display)	---	000
RHD056	(Not display)	---	000
RHD057	(Not display)	---	000
RHD058	(Not display)	---	000
RHD059	(Not display)	---	00B
RHD060	(Not display)	---	000
RHD061	(Not display)	---	000
RHD062	(Not display)	---	000
RHD063	(Not display)	---	000
RHD064	(Not display)	---	000
RHD065	(Not display)	---	000
RHD066	(Not display)	---	000
RHD067	(Not display)	---	000
RHD068	(Not display)	---	000
RHD069	(Not display)	---	000

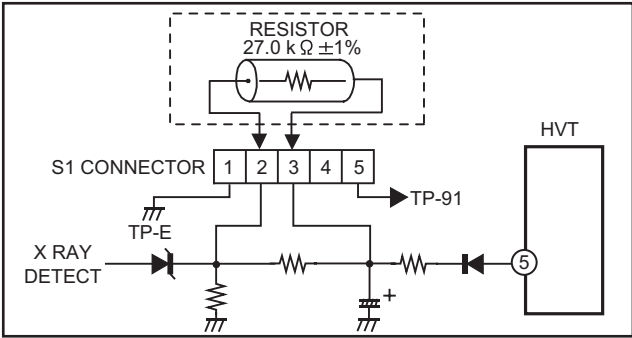
Item No.	Item name	Variable range	Setting value
RHD070	(Not display)	---	000
RHD071	(Not display)	---	000
RHD072	(Not display)	---	000
RHD073	(Not display)	---	000
RHD074	(Not display)	---	000
RHD075	(Not display)	---	000
RHD076	(Not display)	---	000
RHD077	(Not display)	---	000
RHD078	(Not display)	---	000
RHD079	(Not display)	---	000
RHD080	(Not display)	---	000
RHD081	(Not display)	---	000
RHD082	(Not display)	---	000
RHD083	(Not display)	---	000
RHD084	(Not display)	---	000
RHD085	(Not display)	---	000
RHD086	(Not display)	---	000
RHD087	(Not display)	---	000
RHD088	(Not display)	---	000
RHD089	(Not display)	---	000
RHD090	(Not display)	---	000
RHD091	(Not display)	---	000
RHD092	(Not display)	---	000
RHD093	(Not display)	---	000
RHD094	(Not display)	---	000
RHD095	(Not display)	---	000
RHD096	(Not display)	---	000
RHD097	(Not display)	---	000
RHD098	(Not display)	---	000
RHD099	(Not display)	---	000
RHD100	(Not display)	---	000
RHD101	(Not display)	---	000
RHD102	(Not display)	---	000
RHD103	(Not display)	---	000
RHD104	(Not display)	---	000
RHD105	(Not display)	---	000
RHD106	(Not display)	---	000
RHD107	(Not display)	---	000
RHD108	(Not display)	---	000
RHD109	(Not display)	---	000
RHD110	(Not display)	---	000
RHD111	(Not display)	---	000
RHD112	(Not display)	---	000
RHD113	(Not display)	---	000
RHD114	(Not display)	---	000

Item No.	Item name	Variable range	Setting value
RHD115	(Not display)	---	000
RHD116	(Not display)	---	000
RHD117	(Not display)	---	000
RHD118	(Not display)	---	000
RHD119	(Not display)	---	000
RHD120	(Not display)	---	000
RHD121	(Not display)	---	000
RHD122	(Not display)	---	000
RHD123	(Not display)	---	000
RHD124	(Not display)	---	000
RHD125	(Not display)	---	000
RHD126	(Not display)	---	000
RHD127	(Not display)	---	000
RHD128	(Not display)	---	000
RHD129	(Not display)	---	000
RHD130	(Not display)	---	000
RHD131	(Not display)	---	000
RHD132	(Not display)	---	000
RHD133	(Not display)	---	000
RHD134	(Not display)	---	000
RHD135	(Not display)	---	000
RHD136	(Not display)	---	000
RHD137	(Not display)	---	000
RHD138	(Not display)	---	000
RHD139	(Not display)	---	000
RHD140	(Not display)	---	000
RHD141	(Not display)	---	000
RHD142	(Not display)	---	000
RHD143	(Not display)	---	000
RHD144	(Not display)	---	000
RHD145	(Not display)	---	000
RHD146	(Not display)	---	000
RHD147	(Not display)	---	000
RHD148	(Not display)	---	000
RHD149	(Not display)	---	000
RHD150	(Not display)	---	000
RHD151	(Not display)	---	000
RHD152	(Not display)	---	000
RHD153	(Not display)	---	000
RHD154	(Not display)	---	000
RHD155	(Not display)	---	000
RHD156	(Not display)	---	000
RHD157	(Not display)	---	000
RHD158	(Not display)	---	000
RHD159	(Not display)	---	000

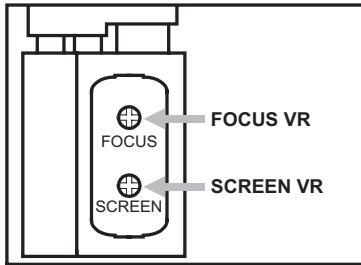
Item No.	Item name	Variable range	Setting value
RHD160	(Not display)	---	000
RHD161	(Not display)	---	000
RHD162	(Not display)	---	000
RHD163	(Not display)	---	000
RHD164	(Not display)	---	000
RHD165	(Not display)	---	000
RHD166	(Not display)	---	000
RHD167	(Not display)	---	000
RHD168	(Not display)	---	000
RHD169	(Not display)	---	000
RHD170	(Not display)	---	000

4.8 ADJUSTMENT PROCEDURE

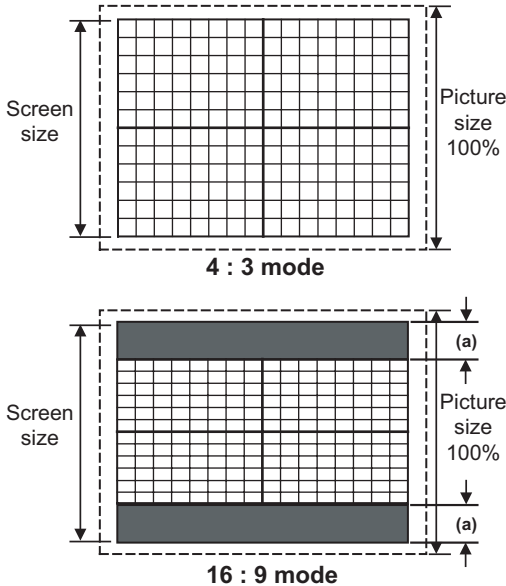
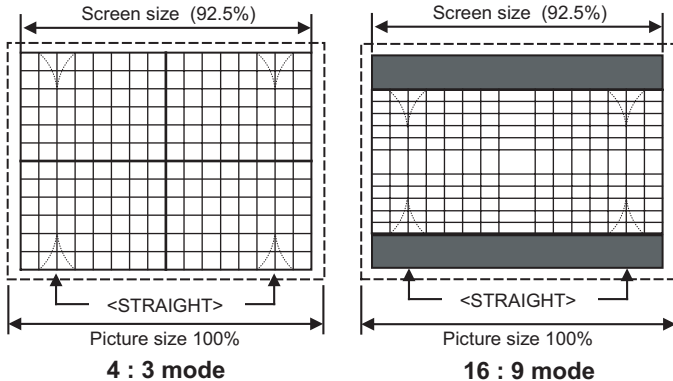
4.8.1 CHECK ITEM

Item	Measuring instrument	Test point	Adjustment part	Description
B1 VOLTAGE	Signal generator DC voltmeter	S1 connector 1-pin: TP-E 5-pin: TP-91 [POWER & DEF PWB]		(1) Receive the black and white signal (color off). (2) Connect the DC voltmeter to the TP-E and TP-91(B1) of S1 connector. (3) Confirm that the voltage is DC140V±2.5V.
HIGH VOLTAGE HOLD DOWN	Resistor [27.0kΩ±1%]	S1 connector 2-pin : X-RAY2 3-pin : X-RAY1 [POWER & DEF PWB]		<ul style="list-style-type: none"> After repairing the high voltage hold down circuit. This circuit shall be checked to operate correctly. (1) Turn the power switch to on. (2) Refer to the figure, connect the resistor 27.0kΩ ±1% between S1 connector 2-pin and 3-pin. (3) Make sure that the screen picture disappears. (4) Disconnect the power plug. (5) Remove the resistor. (6) Again connect the power plug. (7) Turn the power switch to on. (8) Make sure that the normal picture is displayed on the screen.
				

4.8.2 FOCUS

Item	Measuring instrument	Test point	Adjustment part	Description
FOCUS	Signal generator Remote control unit		FOCUS VR [HVT]	(1) Receive the crosshatch signal. (2) Adjust the FOCUS VR to make the horizontal and vertical line as fine and sharp as possible at center. (3) Make sure that when the screen is darkened, the lines remain in good focus.
				

4.8.3 DEFLECTION CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
V. POSITION / V. SIZE / V. LINEARITY	Signal generator		[1.PICTURE/SOUND] D01: V. SIZE D05: V. LINE D06: V. CENT	(1) Receive the crosshatch signal. (2) Select 1.PICTURE/SOUND from the SERVICE MODE. (3) Adjust the < D06 > (V.CENT) so that the vertical center of the picture comes to the vertical center of the screen. (4) Adjust the < D01 > (V.SIZE) to become the screen size to 91.5% of the vertical picture size. (5) Adjust the < D05 > (V. LINE) so that the crosshatch screen becomes true square at the portion of top, middle and bottom. (6) Press the [MUTING] key to memorize the set value. (7) Set the ASPECT to 16:9 mode. (8) Confirm that the blanking height of (a) in the figure is 50mm. (9) If it is different, repeat the steps 3. to 6. as above.
	Remote control unit			
				NOTE: <ul style="list-style-type: none"> Do not adjust the < D04 > (V. SCORE).
H. POSITION / H. SIZE / SIDE PIN / TRAPEZIUM	Signal generator		[1.PICTURE/SOUND] D02: EW D03: H. SIZE D07: EW. TRAP D08: BOT. CORN D09: TOP. CORN D14: H. CENTER	(1) Receive the crosshatch signal. (2) Select 1.PICTURE/SOUND from the SERVICE MODE. (3) Adjust the < D14 > (H.CENTER) so that the horizontal center of the crosshatch agrees with the horizontal center of the screen. (4) Adjust the < D03 > (H. SIZE) to become the screen size to 92.5% of the horizontal picture size. (5) Adjust the < D02 > (EW TRAP) so that the vertical lines become straight. (6) If the corner pincushions are too bad, adjust the < D09 > (TOP. CORN), < D08 > (BOT. CORN) and < D07 > (EW. TRAP) to get exact corner pincushion of the crosshatch pattern. (7) Press the [MUTING] key to memorize the set value. (8) Set the ASPECT to 16:9 screen mode. (9) Confirm the screen size to 92.5% of the horizontal picture size. (10) If it is different, repeat the steps 3. to 7. as above.
	Remote control unit			
				NOTE: <ul style="list-style-type: none"> Confirm the H. position and if it is different, readjust the H. position again. Repeat the adjustment of the H. size and side pincushion.

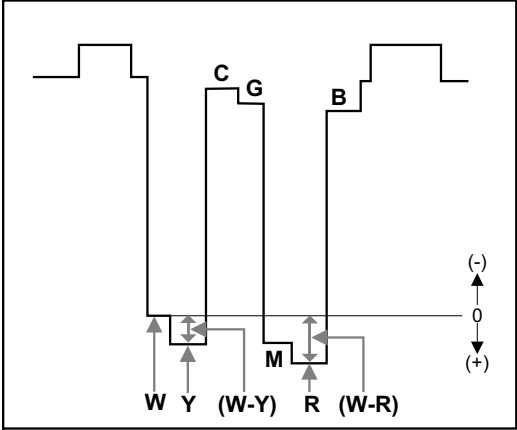
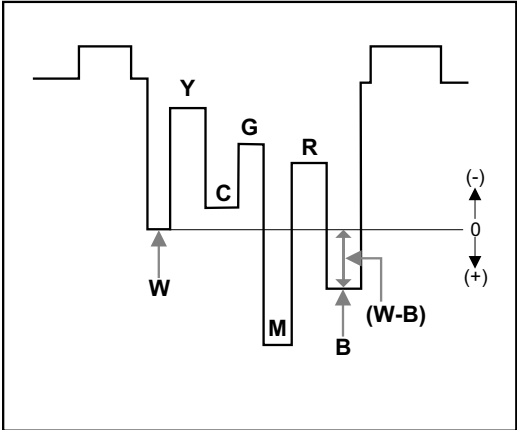
4.8.4 VIDEO CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
WHITE BALANCE (LOW LIGHT)	Signal generator Remote control unit		[1.PICTURE/SOUND] S14: CUTOFF R S16: CUTOFF G S18: CUTOFF B [3.WHITE BALANCE] SCREEN VR [FBT]	<ol style="list-style-type: none"> (1) Receive the NTSC all black signal. (2) Set the VIDEO STATUS to STANDARD. (3) Set the COLOR TEMPERATURE to LOW. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting values of the < S14 > (CUTOFF R), < S16 > (CUTOFF G), < S18 > (CUTOFF B). (6) Return to the main menu in SERVICE MODE. (7) Select the 3.WHITE BALANCE from SERVICE MODE. (8) Display the horizontal line by pressing the [1] key. (9) Turn the SCREEN VR all the way to the left, then turn it gradually clockwise until either one of the red, blue or green color is faintly visible. (10) Adjust the two colors which did not appear until the single horizontal line that is displayed becomes white using the [7], [8], [9], [0], [TUNE] and [RETURN+] keys. (11) Press the [MUTING] key to memorize the set value. (12) Press the [4] key to release the horizontal line mode. (13) If there is a gap with the setting values, repeat the steps 7. to 12. for readjustment. (14) Input the 480i component video signal to COMPONENT VIDEO terminal. (15) Repeat the steps 7. to 13. as above. (16) Input the 1080i component video signal to COMPONENT VIDEO terminal. (17) Repeat the steps 7. to 13. as above.
<div style="border: 1px solid black; padding: 10px; text-align: center;"> REMOTE CONTROL UNIT </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>H.LINE ON ①</div> <div>②</div> <div>③</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>H.LINE OFF ④</div> <div>⑤</div> <div>⑥</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>G CUTOFF▲ ⑦</div> <div>R CUTOFF▲ ⑧</div> <div>B CUTOFF▲ ⑨</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>G CUTOFF▼ TUNE</div> <div>R CUTOFF▼ ⑩</div> <div>B CUTOFF▼ RETURN+</div> </div>				
WHITE BALANCE (HIGH LIGHT)	Signal generator Remote control unit		[1.PICTURE/SOUND] S10: DRIVE R S12: DRIVE B [3.WHITE BALANCE]	<ol style="list-style-type: none"> (1) Receive the NTSC 100% all white signal. (2) Set the VIDEO STATUS to STANDARD. (3) Set the COLOR TEMPERATURE to LOW. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting values of the < S10 > (DRIVE R) and < S12 > (DRIVE B). (6) Return to the main menu in SERVICE MODE. (7) Select the 3.WHITE BALANCE from SERVICE MODE. (8) Adjust the screen until it becomes white using the [2], [3], [5] and [6] keys. (9) Press the [MUTING] key to memorize the set value. (10) Make sure that the WHITE BALANCE tracking from the LOW-LIGHT through the HIGH-LIGHT has been properly done. [When the black and white signal (color off) is received, the natural white should be visible.] (11) Input the 480i component video signal to COMPONENT VIDEO terminal. (12) Repeat the steps 7. to 9. as above. (13) Input the 1080i component video signal to COMPONENT VIDEO terminal. (14) Repeat the steps 7. to 9. as above. (15) If there is a gap with the initial setting values, repeat the steps 7. to 9. for readjustment.
<div style="border: 1px solid black; padding: 10px; text-align: center;"> REMOTE CONTROL UNIT </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>①</div> <div>R DRIVE▲ ②</div> <div>B DRIVE▲ ③</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>④</div> <div>R DRIVE▼ ⑤</div> <div>B DRIVE▼ ⑥</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>⑦</div> <div>⑧</div> <div>⑨</div> </div> <div style="display: flex; justify-content: space-around; margin-top: 10px;"> <div>TUNE</div> <div>⑩</div> <div>RETURN+</div> </div>				

Item	Measuring instrument	Test point	Adjustment part	Description
SUB BRIGHT	Signal generator Remote control unit		[1.PICTURE/SOUND] S03: BRIGHT	(1) Receive the NTSC color bar signal. (2) Set the VIDEO STATUS to STANDARD. (3) Set the COLOR TEMPERATURE to LOW. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting value of the < S03 > (BRIGHT). (6) If the brightness is not the best with initial setting value, make fine adjustment of the < S03 > until you get the best brightness. (7) Press the [MUTING] key to memorize the set value. (8) Input the 480i component color bar signal to COMPONENT VIDEO terminal. (9) Repeat the steps 2. to 7. as above. (10) Input the 1080i component color bar signal to COMPONENT VIDEO terminal. (11) Repeat the steps 2. to 7. as above.
SUB CONTRAST	Signal generator Remote control unit		[1.PICTURE/SOUND] S04: CONTRAST	(1) Receive the NTSC color bar signal. (2) Set the VIDEO STATUS to STANDARD. (3) Set the COLOR TEMPERATURE to LOW. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting value of the < S04 > (CONTRAST). (6) If the contrast is not the best with the initial setting value, make fine adjustment of the < S04 > until you get the optimum contrast. (7) Press the [MUTING] key to memorize the set value. (8) Input the 480i component color bar signal to COMPONENT VIDEO terminal. (9) Repeat the steps 2. to 7. as above. (10) Input the 1080i component color bar signal to COMPONENT VIDEO terminal. (11) Repeat the steps 2. to 7. as above.

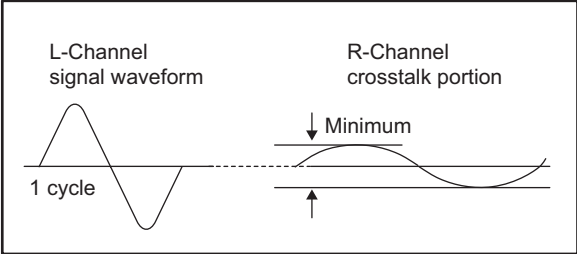
Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOR / SUB TINT / B-Y GAIN (1)	Signal generator Remote control unit		[1.PICTURE/SOUND] S01: COLOR S02: TINT S07: B-Y	Method of adjustment without measuring instrument (1) Receive the composite NTSC color bar signal. (2) Set the VIDEO STATUS to STANDARD. (3) Set the COLOR TEMPERATURE to LOW. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting values of the < S01 > (COLOR) and < S02 > (TINT). (6) If the color or tint is not the best with the initial setting values, make fine adjustment until you get the best color or the best tint. (7) Set the initial setting values of the < S07 > (B-Y). (8) If the color bar is not clearly with the initial setting value, make fine adjustment until you get the clearly color bar. (9) Press the [MUTING] key to memorize the set value. (10) Input the 480i component color bar signal to COMPONENT VIDEO terminal. (11) Repeat the steps 2. to 9. as above. (12) Input the 480p component color bar signal to COMPONENT VIDEO terminal. (13) Repeat the steps 2. to 9. as above. (14) Input the 1080i component color bar signal to COMPONENT VIDEO terminal. (15) Repeat the steps 2. to 9. as above.

Item	Measuring instrument	Test point	Adjustment part	Description
SUB COLOR / SUB TINT / B-Y GAIN (2)	Signal generator Oscilloscope Remote control unit	TP-R TP-B TP-E [CRT SOCKET PWB]	[1.PICTURE/SOUND] S01: COLOR S02: TINT S07: B-Y	Method of adjustment using measuring instrument (1) Receive the composite NTSC color bar (75% white) signal. (2) Set the VIDEO STATUS to STANDARD. (3) Set the COLOR TEMPERATURE to LOW. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Connect the oscilloscope between TP-R and TP-E. (6) Adjust the < S01 > (COLOR) and < S02 > (TINT) to be the following setting value A [V]. (7) Connect the oscilloscope between TP-B and TP-E. (8) Adjust the < S07 > (B-Y) to be setting value B [V] . (9) Press the [MUTING] key to memorize the set value. (10) Input the 480i component color bar signal to COMPONENT VIDEO terminal. (11) Repeat the steps 2. to 9. as above. (12) Input the 480p component color bar signal to COMPONENT VIDEO terminal. (13) Repeat the steps 2. to 9. as above. (14) Input the 1080i component color bar signal to COMPONENT VIDEO terminal. (15) Repeat the steps 2. to 9. as above. NOTE: <ul style="list-style-type: none"> • Confirm that the low-light is not different after adjusting SUB COLOR, SUB TINT and B-Y GAIN. If it is green or magenta, adjust the low-light again. • If the readjustment is carried out, set the off set values again.

Setting value	A		B
	STANDARD		STANDARD
	(W-R)	(W-Y)	(W-B)
	S01	S02	S07
NTSC	+45V	+16V	+6V
480i	+52V	+26V	+16V
480p	+48V	+20V	0V
1080i	-28V	-3V	-14V

4.8.5 MTS CIRCUIT

Item	Measuring instrument	Test point	Adjustment part	Description
MTS INPUT LEVEL	Remote control unit		[1.PICTURE/SOUND] A01: IN LEVEL	(1) Receive the any broadcast. (2) Select the 1.PICTURE/SOUND from the SERVICE MODE. (3) Select the < A01 > (IN LEVEL). (4) Set the intal setting value of the < A01 >. (5) Press the [MUTING] key to memorize the set value.
MTS SEPARATION	TV audio multiplex signal generator Oscilloscope Remote control unit	R OUT L OUT [AUDIO OUT]	[1.PICTURE/SOUND] A02: LOW SEP A03: HI SEP	(1) Input the stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to L OUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal. (3) Change the connection of the oscilloscope to R OUT pin of the AUDIO OUT, and enlarge the voltage axis. (4) Select 1.PICTURE/SOUND from the SERVICE MODE. (5) Set the initial setting value of the < A02 > (LOW SEP). (6) Adjust the < A02 > so that the stroke element of the 300Hz signal will become minimum. (7) Change the signal to 3kHz, and similarly adjust the < A03 > (HI SEP). (8) Press the [MUTING] key to memorize the set value.
				

SECTION 5 TROUBLESHOOTING

5.1 SELF CHECK FEATURE

5.1.1 OUTLINE

This unit comes with the "SELF CHECK" feature, which checks the operational state of the circuit and displays/saves it during failure. Diagnosis is performed when power is turned on, and information input to the main microcomputer is monitored at all time. Diagnosis is displayed in 2 ways via screen display and LED flashes. Failure detection is based on input state of I²C bus and the various control lines connected to the main microcomputer.

5.1.2 HOW TO ENTER THE SELF CHECK MODE

Before entering the SELF CHECK mode, confirm that the setting of TV / CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR / DVD SW is at the "VCR" side. If the switches have not been properly set, you cannot enter the SELF CHECK mode.

- (1) Press the [SLEEP TIMER] key and set it to 30 minutes.
- (2) Press the [VIDEO STATUS] key and [DISPLAY] key simultaneously, then enter the TEST MODE.
- (3) Press the [4] key (SELF-CHK) .

5.1.3 HOW TO EXIT THE SELF CHECK MODE

To Save Failure History:

Turn off the power by unplugging the AC power cord plug when in the SELF CHECK mode.

To Clear (Reset) Failure History:

Turn off the power by pressing the [POWER] key on the remote control unit when in the SELF CHECK mode.

5.1.4 FAILURE HISTORY

Failure history can be counted up to 9 times for each item. When the number exceeds 9, display will remain as 9. Failure history will be stored in the memory unless it has been deleted.

NOTE:

Only SYNC (with/without sync signals) will be neither counted nor stored.

5.1.5 POINTS TO NOTE WHEN USING THE SELF CHECK FEATURE

In addition to circuit failures (abnormal operation), the following cases may also be iagnosed as "Abnormal" and displayed and counted as "NG".

- (1) Temporary defective transmissions across circuits due to pulse interruptions
- (2) Misalignment in the on/off timing of power for I²C bus (VCC) when turning on/off the main power.

Diagnosis may be impeded if a large number of items are displayed as "NG". As such, start SELF CHECK only after 3 seconds in the case of receivers and 5 seconds in the case of panels upon turning on the power. If recurrences are expected, ensure to clear (reset) the failure history and record the new diagnosis results.

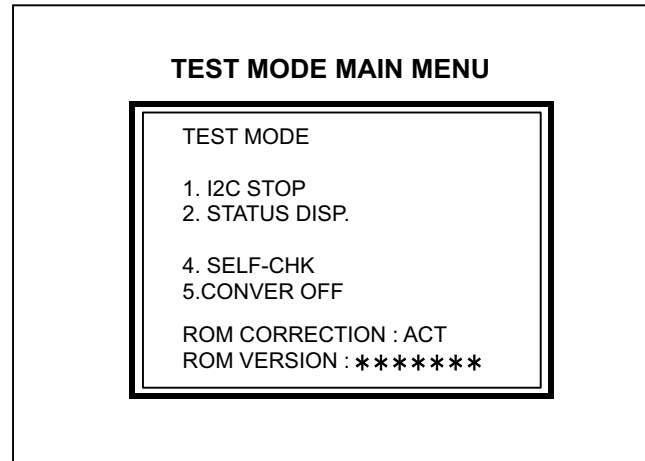


Fig.1

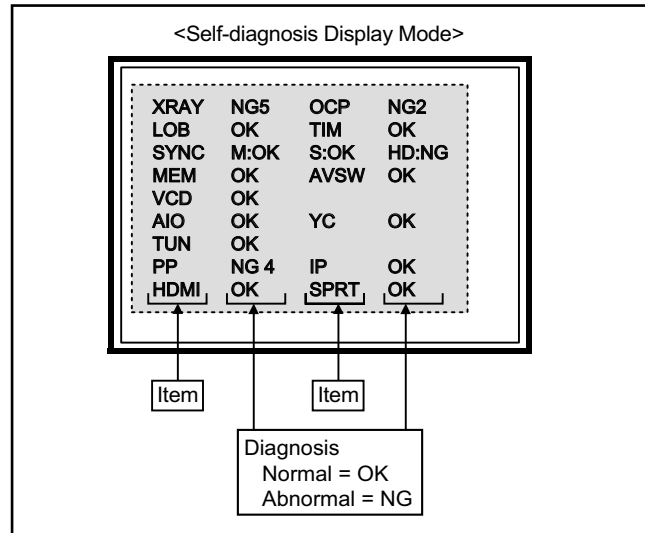


Fig.2

5.1.6 DETAILS

SELF CHECK is performed for the following items:

Check Item	Indication	Details of detection	Method of detection
X-ray protection	XRAY	Operation of X-ray protection circuit. Q1853 [MAIN PWB]	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, POWER LED is turned on and off.
B1 over-current protection	OCP	B1 over-current is detected. Q2971 [POWER & DEF PWB]	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
Low B short protection	LOB	Operation of low B short protection circuit. 5V: Q1961 9V: Q1962 [MAIN PWB]	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
CRT neck protection		Operation of CRT neck protection circuit. Q2401 [POWER & DEF PWB]	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 1.5s, the power is turned off automatically.
Timer (clock)	TIM	The power frequency is changed as follows: 50Hz→60Hz / 60Hz→50Hz IC1701 [MAIN PWB]	Periodically check the power frequency by counting the AC pulse and monitor whether or not the frequency is changed except for the time immediately after resetting.
Presence or absence of synchronized signal	SYNC	Presence of synchronized signal. HD: Component input / M: NTSC main / S: NTSC sub IC1301 [MAIN PWB]	When entering the self-check mode, "OK" is shown. While running the mode with picture signal, if the synchronized signal is disappeared, "NG" is shown.
Main memory	MEM	ACK is returned when I ² C traffic is carried out. IC1803 (memory) [MAIN PWB]	The state is monitored every time when I ² C traffic is carried out. Then the state is counted as a failure if ACK is not returned.
AV switch	AVSW	Ditto IC1501 and IC1801 [MAIN PWB]	Ditto
Video process	VCD	Ditto IC1301 [MAIN PWB]	Ditto
Audio process	AIO	Ditto IC1140 [MAIN PWB]	Ditto
3D YC separation	YC	Ditto IC3101 [DIGITAL SIGNAL PWB]	Ditto
RF tuner	TUN	Ditto TU1101 [MAIN PWB]	Ditto
Multi screen	PP	Not used	---
DIST process	IP	ACK is returned when I ² C traffic is carried out. IC3001 [DIGITAL SIGNAL PWB]	The state is monitored every time when I ² C traffic is carried out. Then the state is counted as a failure if ACK is not returned.
Digital input process	HDMI	Ditto	Ditto
Split protection	SPRT	Not used	---

5.1.7 DISPLAY METHOD WHEN RASTER IS NOT AVAILABLE

The self check results are shown on the following LED display.
Method of indication when the raster is not displayed.

Each failure is shown by turning LED on and off at the specified intervals.

- For B1 over-current protection, CRT neck protection and Low B short protection, the power of the TV is turned off, if NG is detected. Immediately after the power is turned off, POWER LED will be turning on and off. When the power is turned off, you cannot turn the power on again until the AC plug is taken out and put in again.

Item	POWER LED ON / OFF intervals
X-ray protection	Turning on and off at 0.1-second intervals
B1 over-current protection	Turning on and off at 1-second intervals
Low B short protection	Turning on and off at 2-second intervals
CRT neck protection	Turning on and off at 3-second intervals



Victor Company of Japan, Limited
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(No.YA319)



Printed in Japan
VPT

JVC®

I·Art™ PRO

Color Television Users Guide

For Models:

AV-32S776

AV-32S766

AV-30W776

AV-27S776

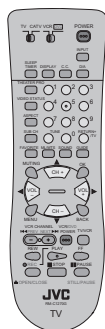


Illustration of AV-30W776 and RM-C1270G

Important Note:

In the spaces below, enter the model and serial number of your television (located at the rear of the television cabinet). Staple your sales receipt or invoice to the inside cover of this guide. Keep this user's guide in a convenient place for future reference. Keep the carton and original packaging for future use.

Model Number: _____

Serial Number: _____

LCT1855-001A-A
0705JGI-II-IM

Important Safety Precautions



CAUTION **RISK OF ELECTRIC SHOCK** **DO NOT OPEN**



CAUTION: To reduce the risk of electric shock. Do not remove cover (or back). No user serviceable parts inside. Refer servicing to qualified service personnel.



The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

WARNING: TO PREVENT FIRE OR SHOCK HAZARDS, DO NOT EXPOSE THIS TV SET TO RAIN OR MOISTURE.

CAUTION: TO INSURE PERSONAL SAFETY, OBSERVE THE FOLLOWING RULES REGARDING THE USE OF THIS UNIT.

1. Operate only from the power source specified on the unit.
2. Avoid damaging the AC plug and power cord.
3. Avoid Improper installation and never position the unit where good ventilation is unattainable.
4. Do not allow objects or liquid into the cabinet openings.
5. In the event of trouble, unplug the unit and call a service technician. Do not attempt to repair it yourself or remove the rear cover.

Changes or modifications not approved by JVC could void the warranty.

- * When you don't use this TV set for a long period of time, be sure to disconnect both the power plug from the AC outlet and antenna for your safety.
- * To prevent electric shock do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT RECYCLING INFORMATION

This product utilizes both a Cathode Ray Tube (CRT) and other components that contain lead. Disposal of these materials may be regulated in your community due to environmental considerations. For disposal or recycling information, please contact your local authorities, or the Electronic Industries Alliance: <http://www.eiae.org>



- As an “ENERGY STAR®” partner, JVC has determined that this product or product model meets the “ENERGY STAR®” guidelines for energy efficiency.

Important Safeguards

CAUTION:

Please read and retain for your safety.

Electrical energy can perform many useful functions. This TV set has been engineered and manufactured to assure your personal safety. But **improper use can result in potential electrical shock or fire hazards**. In order not to defeat the safeguards incorporated in this TV set, observe the following basic rules for its installation, use and servicing. Also follow all warnings and instructions marked on your TV set.

INSTALLATION

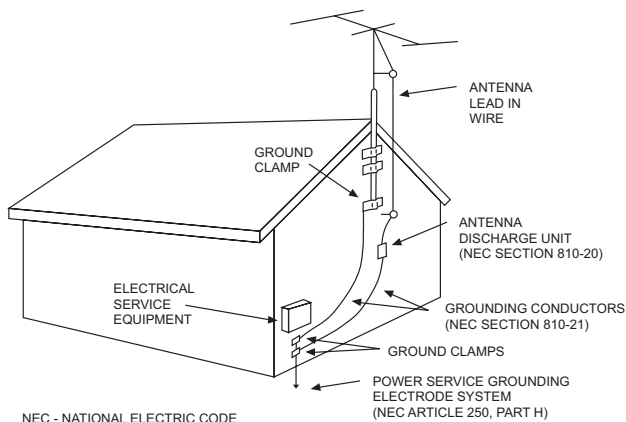
- 1 Your TV set is equipped with a polarized AC line plug (one blade of the plug is wider than the other). This safety feature allows the plug to fit into the power outlet only one way. Should you be unable to insert the plug fully into the outlet, try reversing the plug. Should it still fail to fit, contact your electrician.
- 2 Operate the TV set only from a power source as indicated on the TV set or refer to the operating instructions for this information. If you are not sure of the type of power supply to your home, consult your TV set dealer or local power company. For battery operation, refer to the operating instructions.
- 3 Overloaded AC outlets and extension cords are dangerous, and so are frayed power cords and broken plugs. They may result in a shock or fire hazard. Call your service technician for replacement.
- 4 Do not allow anything to rest on or roll over the power cord, and do not place the TV set where power cord is subject to traffic or abuse. This may result in a shock or fire hazard.
- 5 Do not use this TV set near water — for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near swimming pool, etc.
- 6 If an outside antenna is connected to the TV set, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection requirements for the grounding electrode.

(POLARIZED-TYPE)



- 7 An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE



- 8 TV sets are provided with ventilation openings in the cabinet to allow heat generated during operation to be released.

Therefore:

- Never block the bottom ventilation slots of a portable TV set by placing it on a bed, sofa, rug, etc.
- Never place a TV set in a “built-in” enclosure unless proper ventilation is provided.
- Never cover the openings with a cloth or other material.
- Never place the TV set near or over a radiator or heat register.

- 9 To avoid personal injury:

- Do not place a TV set on a sloping shelf unless properly secured.
- Use only a cart or stand recommended by the TV set manufacturer.
- Do not try to roll a cart with small casters across thresholds or deep pile carpets.
- Wall or shelf mounting should follow the manufacturer's instructions, and should use a mounting kit approved by the manufacturer.

Use

- 10 Caution children about dropping or pushing objects into the TV set through cabinet openings. Some internal parts carry hazardous voltages and contact can result in a fire or electrical shock.
- 11 Unplug the TV set from the wall outlet before cleaning. Do not use liquid or an aerosol cleaner.
- 12 Never add accessories to a TV set that has not been designed for this purpose. Such additions may result in a hazard.



PORTABLE CART WARNING
(Symbol provided by RETAC)

- 13 For added protection of the TV set during a lightning storm or when the TV set is to be left unattended for an extended period of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to product due to lightning storms or power line surges.
- 14 A TV set and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the TV set and cart combination to overturn.

Service

- 15 Unplug this TV set from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - A. When the power cord or plug is damaged or frayed.
 - B. If liquid has been spilled into the TV set.
 - C. If the TV set has been exposed to rain or water.
 - D. If the TV set does not operate normally by following the operating instructions. Adjust only those controls that are covered in the operating instructions as improper adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore the TV set to normal operation.
 - E. If the TV set has been dropped or damaged in any way.
 - F. When the TV set exhibits a distinct change in performance — this indicates a need for service.
- 16 Do not attempt to service this TV set yourself as opening or removing covers may expose you to dangerous voltage or other hazards. Refer all servicing to qualified service personnel.
- 17 When replacement parts are required, have the service technician verify in writing that the replacement parts he uses have the same safety characteristics as the original parts. Use of manufacturer's specified replacement parts can prevent fire, shock, or other hazards.
- 18 Upon completion of any service or repairs to this TV set, please ask the service technician to perform the safety check described in the manufacturer's service literature.
- 19 When a TV set reaches the end of its useful life, improper disposal could result in a picture tube implosion. Ask a qualified service technician to dispose of the TV set.
- 20 Note to CATV system installer.

This reminder is provided to call the CATV system installer's attention to Article 820-40 of the NEC that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the point of cable entry as practical.

Table of Contents

Quick Setup 8

Unpacking your TV	8
TV Models	9
TV Remote Control	11
Getting Started	12
The Remote Control	12
Connecting Your Devices	13
Interactive Plug In Menu	20

Remote Programming 23

Setting CATV, VCR and DVD Codes	23
CATV or Satellite Codes	23
VCR Codes	24
DVD Codes	25
Search Codes	26

Onscreen Menus 27

Using the Guide	27
Onscreen Menu System	28

Initial Setup 30

Auto Tuner Setup	30
Channel Summary	30
V-Chip	32
Set Lock Code	38
Language	39
Closed Caption	40
Auto Shut Off	42
XDS ID	42
Tilt Correction	42
Noise Muting	43
Front Panel Lock	43
V1 Smart Input	44
Video Input Label	44
Position Adjustment	45
Digital-In	46
Digital-In Audio	46

Picture Adjust 47

Picture Settings	47
Adjust Picture Settings	47
Color Temperature	47
Digital Noise Clear	47
Natural Cinema	48
VSM	48
Reset	48

Sound Adjust 49

Sound Settings	49
Adjust Sound Settings	49
Reset	49

Clock Timers 50

Set Clock	50
On/Off Timer	51

Button Functions 52

Power	52
Number Buttons	52
Tune	52
Input	52
Channel +/-	52
Volume +/-	52
Return+/TV	53
Sound	53
Muting	53
Video Status	54
TheaterPro D6500K	54
Sleep Timer	54
Display	55
C.C.	55
Aspect	56
Aspect Ratios	56
Favorite	59
ML/MTS	60
Menu	60
OK	60
Back	60
TV/CATV Slide Switch	61
VCR/DVD Slide Switch	61
VCR Buttons	61
DVD Buttons	61

Digital Setup 62

Digital Setup	62
Antenna Level	62
Digital Sound	63
Software Update	64
Software Version	64

Digital Button Functions . . . 65

Digital CH D/A (Digital/Analog)	65
Sub Channel	65
Guide	66

OSD Information 67

Weak Signal	67
No Program	67

Appendices 68

Troubleshooting	68
Warranty	69
Authorized Service Centers	70
Specifications	71
Notes	75

Quick Setup

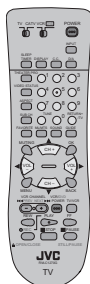
Unpacking your TV

Thank you for your purchase of a JVC Color Television. Before you begin setting up your new television, please check to make sure you have all of the following items. In addition to this guide, your television box should include:

1 Television



1 Remote Control



Two AA
Batteries



Note: Your television and/or remote control may differ from the examples illustrated here.

Once you have unpacked your television, the next step is to connect it to your antenna/cable or satellite system and to connect the audio/video devices you want to use with your television. To make these connections you will use plugs like the ones illustrated below.

Coaxial Cables



Used to connect an external antenna or cable TV system to your TV.

Component Cables Composite Cables Audio Cables



Used to connect audio/video devices like VCRs, DVD players, stereo amplifiers, game consoles, etc.

S-Video Cable



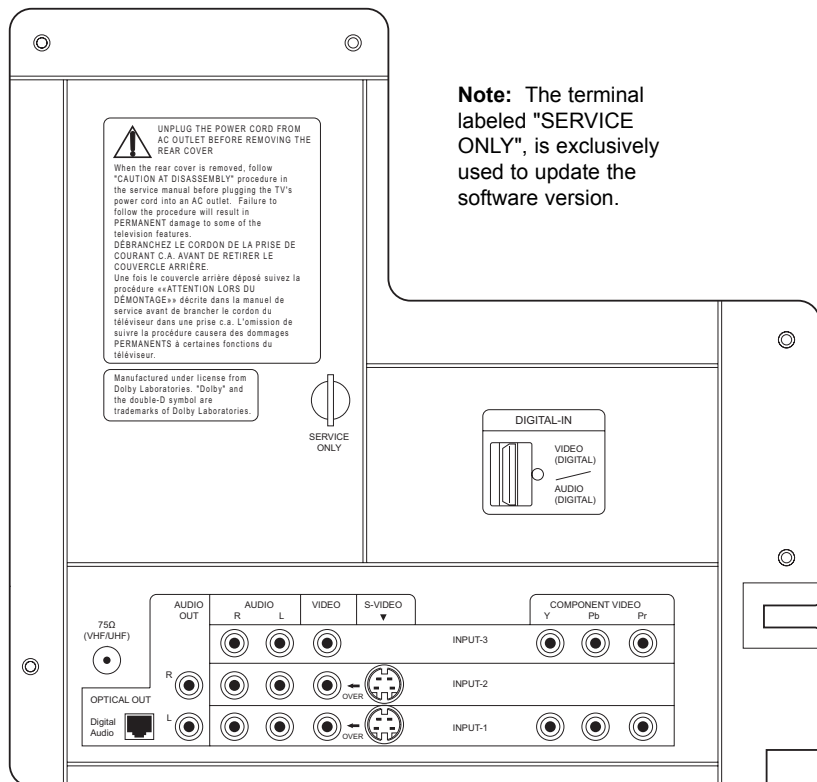
Used to make video connections with S-Video VCRs, Camcorders and DVD players.

We recommend that before you start using your new television, you read your entire User's Guide so you can learn about your new television's many great features. If you're anxious to start using your television right away, a quick setup guide follows on the next few pages.

NOTE: Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

Rear Panel Diagram

MODELS : AV-32S776, AV-32S766, AV-30W776, AV-27S776

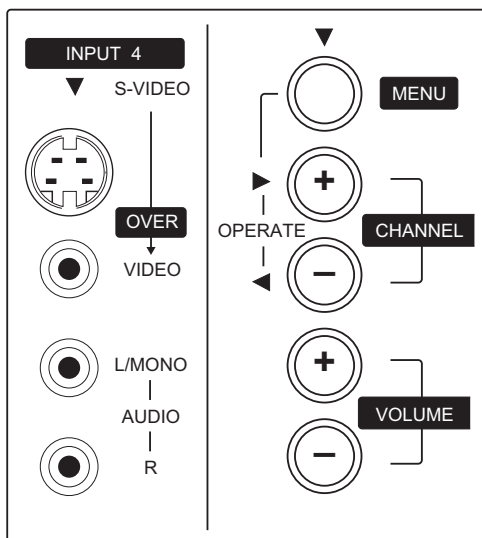


Note: The terminal labeled "SERVICE ONLY", is exclusively used to update the software version.

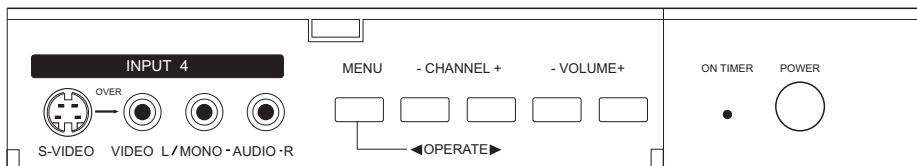
NOTE: Before you connect your television to another device, please refer to the proper diagrams for your specific TV and remote. These will help assist you in understanding how to connect your television to another device, as well as use the remote to set up your television.

Side panel diagram

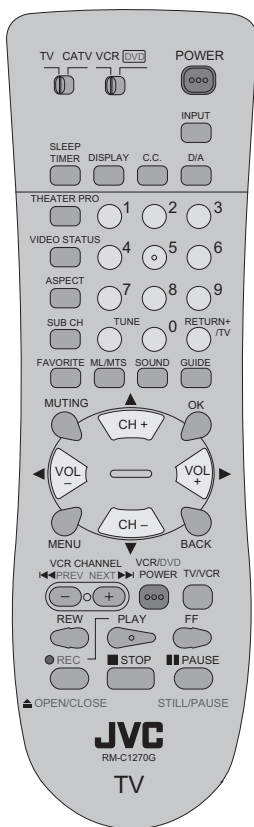
MODEL: AV-30W776



Front panel diagram



MODELS: AV-32S776, AV-32S766, AV-27S776



RM-C1270G

MODELS:

AV-32S776

AV-32S766

AV-30W776

AV-27S776

- For information on remote control buttons, see pages 52 - 61 and 65 - 66.
- SUB CHANNEL and GUIDE buttons are for digital channels. If your TV is connected to an ATSC antenna or Digital Cable, you can use these buttons.

Getting Started

These quick setup pages will provide you, in three easy steps, with the basic information you need to begin using your new television right away.

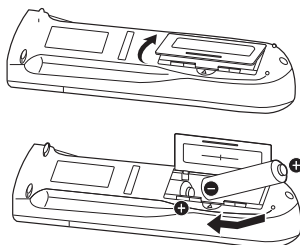
If you have questions, or for more detailed information on any of these steps, please consult other sections of this manual.

Step 1 – The Remote Control

Before you can operate your remote control, you first need to install the batteries (included).

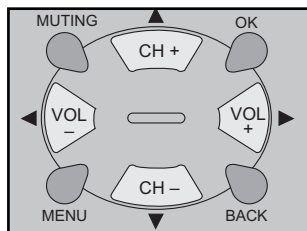
Lift and pull the latch on the back of the remote control to open. Insert two batteries (included) carefully noting the “+” and “-” markings, placing the “-” end in the unit first. Snap the cover back into place.

When you change the batteries, try to complete the task within three minutes. If you take longer than three minutes, the remote control codes for your VCR, DVD, and/or cable box/satellite receiver may have to be reset. See pages 23 - 26.



Key Feature Buttons

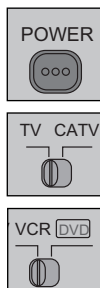
The four key feature buttons at the center of the remote can be used for basic operation of the television. The top and bottom buttons will scan forward and back through the available channels. To move rapidly through the channels using JVC's **Hyperscan** feature, press and hold CH+ or CH-. The channels will zip by at a rate of five channels per second. The right and left buttons will turn the volume up or down. These buttons are also marked with four arrows and are used with JVC's onscreen menu system. To use the onscreen menus, press the MENU button.



Basic Operation

Turn the television on and off by pressing the POWER button at the top right corner of the remote. If this is the first time you are turning on the TV, the interactive plug-in menu appears.

- Make sure the TV/CATV switch is set to TV. Move the switch to CATV only if you need to operate a cable box.
- Slide the VCR/DVD selector switch to VCR to control a VCR. Slide to DVD to control a DVD player. Please see pages 23 to 26 for instructions on programming your remote control to operate a cable box, VCR or DVD player.



Step 2 – Connecting Your Devices

Please follow the flow chart below to determine which connection setup is right for you. Then, refer to the appropriate diagrams to connect your television to other devices that you may have. After you are finished connecting your devices, plug the power cord into the nearest power outlet and turn on the TV.

A VCR is not necessary for operation of the television. If you follow these diagrams and the television does not work properly, contact your local cable operator.

- To connect a DVD player, see **Diagram #3**. A DVD player is optional.
- If you have a satellite television system, please refer to the satellite TV manual.

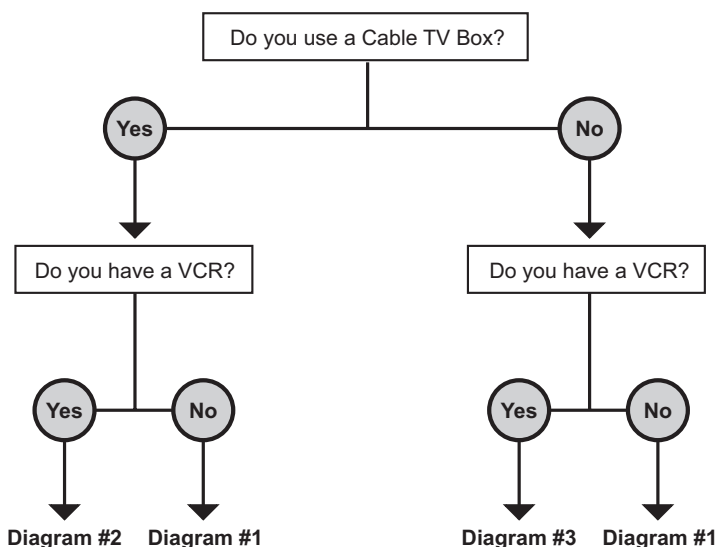
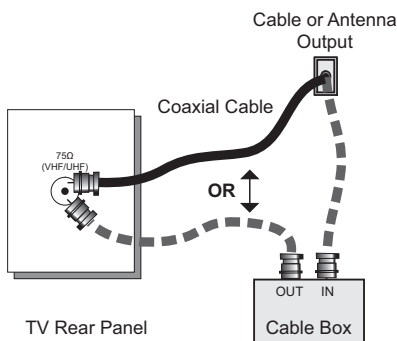


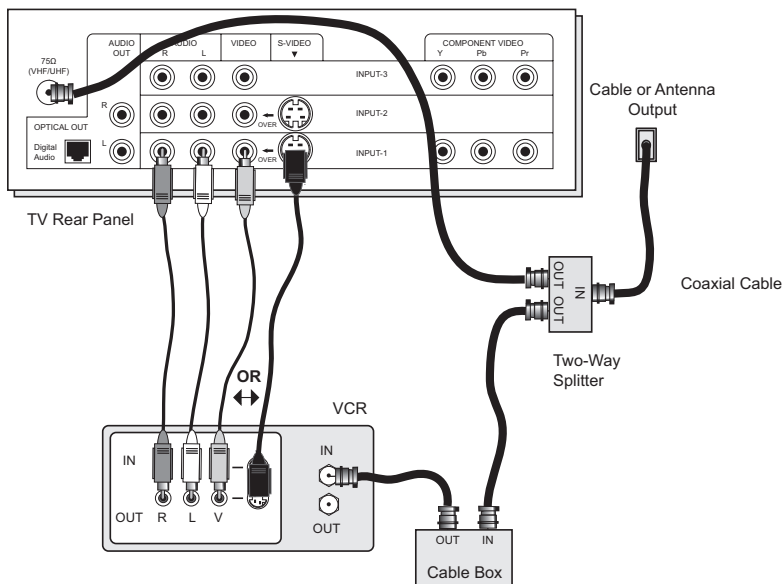
Diagram #1



Note:

- If you do not have a cable box, connect the cable wire from the wall outlet into the back of the TV.

Diagram #2



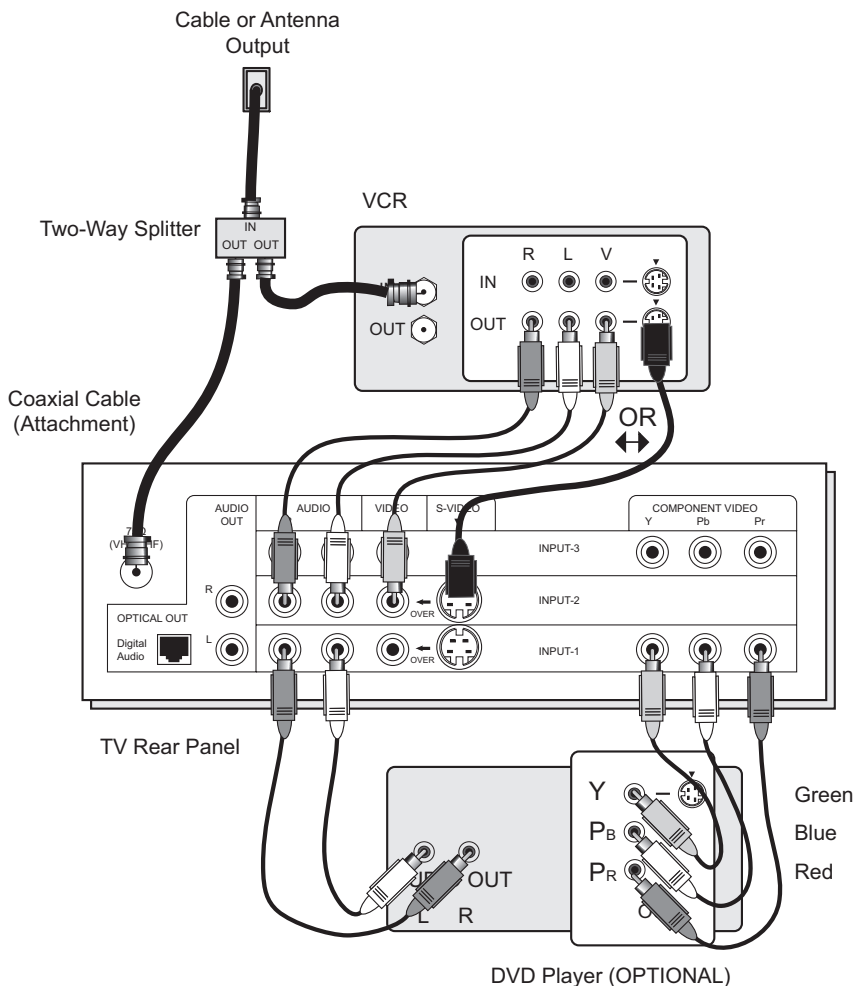
Notes:

- If your VCR is a mono sound unit, it will have only one audio out jack. Connect it to the LEFT AUDIO INPUT on the front of the TV.
- Use the S-Video connection if possible for superior picture quality.
- Your VCR must be turned on to view premium cable channels.

Notes:

- Green, blue and red are the most common colors for DVD cables. Some models may vary colors. Please consult the user's manual for your DVD player for more information.
- Be careful not to confuse the red DVD cable with the red audio cable. It is best to complete one set of connections (DVD or audio output) before starting the other to avoid accidentally switching the cables.
- You may also connect the DVD player to Input 1.

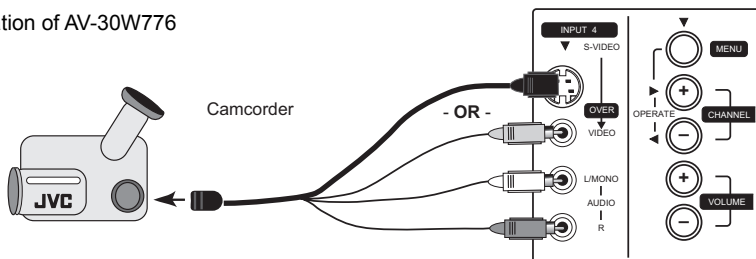
Diagram #3



Connecting to a Camcorder

You may connect a camcorder, game console or other equipment to your television by using the input jacks (Input 4) located on the side or front of the television. You can also connect these using the television's rear input jacks, using the same instructions.

Illustration of AV-30W776



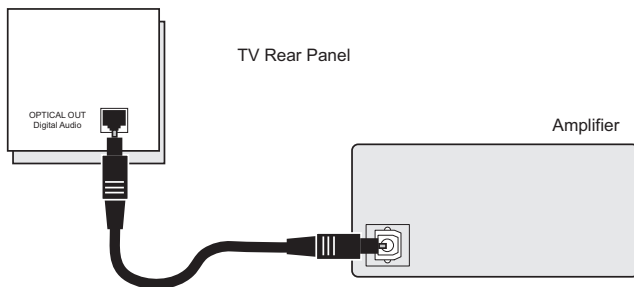
- 1) Connect a yellow composite cable from the camcorder VIDEO OUT, into the VIDEO IN on the side of the TV, **OR** connect an S-Video cable from the side of the TV to the camcorder.
- 2) Connect a white cable from the camcorder LEFT AUDIO OUT, into the LEFT AUDIO IN on the side of the TV.
- 3) Connect a red cable from the camcorder RIGHT AUDIO OUT, into the RIGHT AUDIO IN on the side of the TV.

Note:

- If your camcorder is a mono sound model it will have only one AUDIO OUT. Connect it to the L/MONO on the side of the TV. (**AV-30W776 ONLY**). For all the other models, please use the input jacks on the front control panel.

Connecting to an amplifier using your optical output

You can connect an amplifier that has an optical digital input terminal by using an optical digital cable from the optical output. The signal that is output can be PCM or Dolby Digital.



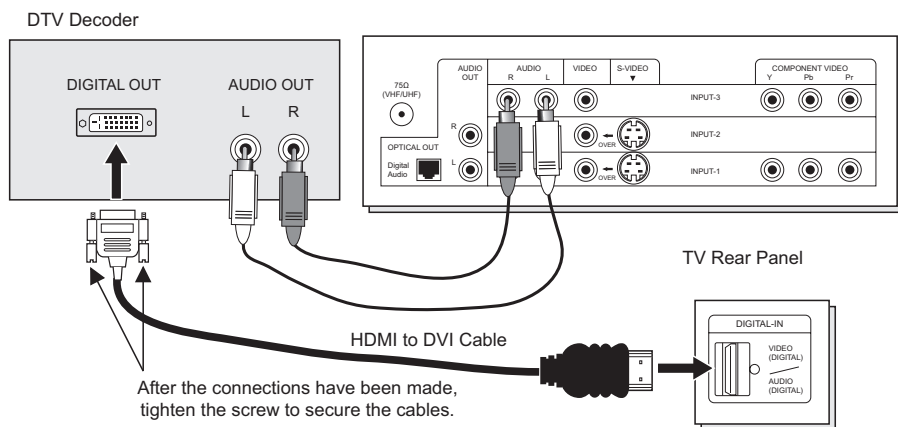
- 1) Connect the optical cable from the back of the TV to the back of the amplifier.

Notes:

- This terminal can only output digital audio.
- In order to use the optical output connection, select PCM or Dolby Digital on Digital Sound in the Digital Setup Menu. See page 63.
- Refer to your owners manual on using your amplifier.

Connecting to a Digital TV Receiver

By connecting a Digital TV Receiver, high definition pictures can be displayed on your TV in their digital form.



- 1) Connect the HDMI to DVI Cable from the DIGITAL OUT on the back of your DTV decoder, to the DIGITAL-IN on the back of your television.
 - 2) Connect a red cable from the DTV decoder RIGHT AUDIO OUT, to the RIGHT AUDIO IN into VIDEO-3 on the back of your television.
 - 3) Connect a white cable from the DTV decoder LEFT AUDIO OUT, to the LEFT AUDIO IN into VIDEO-3 on the back of your television.
- The digital-in terminal is not compatible with the picture signal of a personal computer.
 - Use a HDMI to DVI cable (commercially available) in order to digitally connect the television with a DTV decoder.

Notes:

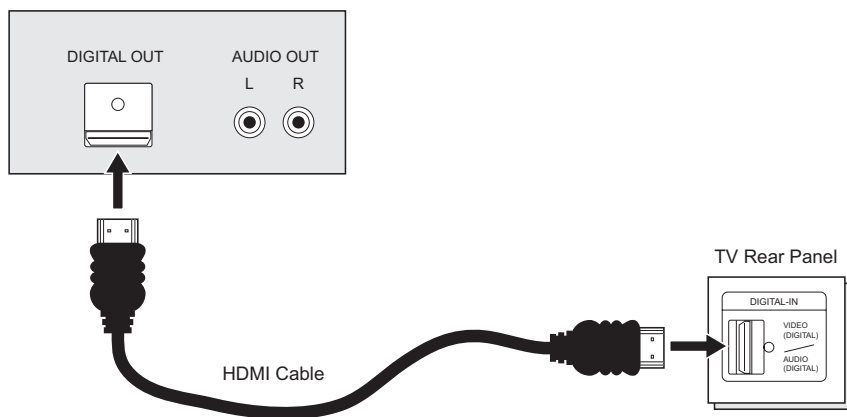
- If 480p signals (640x480 or 720x480) are displayed on the screen, the horizontal balance may be slightly shifted. Access the "DIGITAL-IN" in the initial setup menu to adjust it. (Refer to page 46.)
- When you do the above connection, set DIGITAL-IN AUDIO in the Initial Setup menu to ANALOG. See "DIGITAL-IN AUDIO", page 46.

Connecting to a HDMI Compatible Device

By connecting a HDMI compatible device, high definition pictures can be displayed on your TV in their digital form. Some HDMI devices can include DVD players, D-VHS or any HDMI compatible device.

HDMI (High Definition Multimedia Interface) is the first industry supported, uncompressed, all digital audio/video interface. HDMI provides an interface between any audio/video source, such as a set-top box, DVD player, A/V receiver or an audio and/or video monitor, such as a digital television (DTV).

HDMI Compatible Device



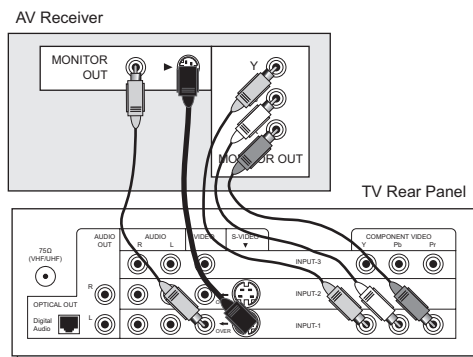
- 1) Connect the HDMI Cable from the DIGITAL OUT on the back of your DTV or HDMI device, to the DIGITAL-IN on the back of your television.

Note:

- When you do the above connection, set DIGITAL-IN AUDIO in the Initial Setup menu to DIGITAL. See "DIGITAL-IN AUDIO", page 46.
- If the HDMI output device signal is changed (for example, 480i/60Hz is changed to 480p/60Hz), the screen may turn green and there may be some distortion for a short time until the signal becomes stable.

Connecting to an AV Receiver using your television's V1 Smart Input

By connecting your AV Receiver to your television's V1 Smart Input, you can watch picture sources from many different devices, without having to change or use the other input connections on your TV. This allows you to free up the other input connections so you can connect more devices to your television.



- 1) Connect an S-Video Cable from the AV Receiver's MONITOR OUT, to the S-Video INPUT-1 on the back of your television.
- 2) Connect a Yellow Component Cable from the AV Receiver's MONITOR OUT, into the VIDEO INPUT-1 on the back of your television.
- 3) Connect a Green Component Cable from the AV Receiver's Y MONITOR OUT, into the Y VIDEO INPUT-1 on the back of your television.
- 4) Connect a Blue Component Cable from the AV Receiver's Pb MONITOR OUT, into the Pb VIDEO INPUT-1 on the back of your television.
- 5) Connect a Red Component Cable from the AV Receiver's Pr MONITOR OUT, into the Pr VIDEO INPUT-1 on the back of your television.

Notes:

- Please refer to your AV Receiver instruction manual for more information on connecting your speakers and other devices like a DVD player.
- Use your AV Receiver's remote to switch to the different devices you have connected.
- Some AV Receivers may not respond when the V1 Smart Input function is turned on.
- If you have video connections for each input device connected to your AV Receiver, you should not connect them using both S-Video and Composite connection at the same time when you are using V1 Input as the V1 Smart Input. In this case we recommend using the S-Video connection.

Step 3 – The Interactive Plug In Menu

When you turn your television on for the first time the interactive plug-in menu will appear. The plug-in menu helps you to get your TV ready to use by letting you set your preferences for:

- The language in which you want the onscreen menus to appear.
- Setting the TV's clock to the correct time so your timer functions will work properly. You can choose "AUTO" or "MANUAL" for setting the clock.
- The auto tuner setup of which channels you wish to receive.

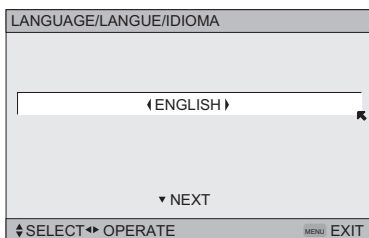
We recommend you complete the interactive plug-in items before you start using your television.

Notes:

- The interactive plug-in menu setting does not appear if your TV has been turned on before. In this case use the onscreen menus to perform these settings. See pages 39, 50 and 30.
- If you press the Menu button while setting up the interactive plug-in menu, it will skip over it.

Language

After the "JVC INTERACTIVE PLUG IN MENU" has been displayed, the TV automatically switches to the LANGUAGE settings. You can choose to view your onscreen menus in three languages: English, French (Français) or Spanish (Español).



To choose a language:
(English, Français or Español)



To NEXT (To set clock)

(To be continued...)

Auto Clock Set

Before you use any of your TV's timer functions, you must first set the clock. You may precisely set your clock using the XDS time signal broadcast by most public analog broadcasting stations. If you do not have this in your area, you will have to set the clock manually. See manual clock set below. To set the clock using the XDS signal:

SET CLOCK	
MODE	← AUTO →
TIME	-- : --
TIME ZONE	← ATLANTIC →
D.S.T.	← ON →
▼ NEXT	
↕ SELECT ↔ OPERATE MENU EXIT	

- ◀▶ To choose AUTO
- ▼ To TIME ZONE
- ◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
- ▼ To move to D.S.T. (Daylight Savings Time)
- ◀▶ To turn D.S.T. ON or OFF
- ▼ To NEXT (To Auto Tuner Setup)

Notes:

- D.S.T. can be used when it is set to ON in the SET CLOCK menu.
- Only when the MODE is set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

Manual Clock Set

To set your clock manually (without using the XDS signal), choose MANUAL. If you choose AUTO, see auto clock set above.

SET CLOCK	
MODE	← MANUAL →
TIME	-- : --
TIME ZONE	← ATLANTIC →
D.S.T.	← ON →
▼ START CLOCK	
↕ SELECT ↔ OPERATE MENU EXIT	

- ◀▶ To choose MANUAL
- ▼ To TIME
- ◀▶ To set the hour
- ▼ To minute
- ◀▶ To set the minute
- ▼ To TIME ZONE
- ◀▶ To select your time zone: (Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)
- ▼ To move to D.S.T. (Daylight Savings Time)
- ◀▶ To turn D.S.T. ON or OFF
- ▼ To START CLOCK

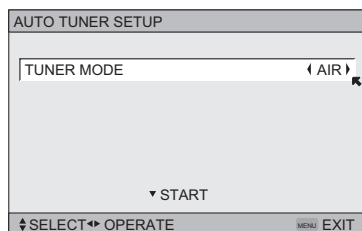
Note:

- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

(To be continued...)

Auto Tuner Setup

In auto tuner setup, the TV automatically scans through all available channels, memorizing the active ones and skipping over blank ones or channels with weak signals. This means when you scan (using the CHANNEL +/- buttons) you will receive only clear, active channels.

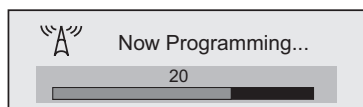


To choose CABLE or AIR (or SKIP when you skip AUTO TUNER SETUP)



To START

After Analog Auto Tuner Setup is finished, Digital Auto Tuner Setup starts.



When the setup is finished, "THANK YOU ! SETUP IS NOW COMPLETE" is displayed. Your quick setup is now complete. You can now begin watching your television, or you can continue on in this guide for more information on programming your remote control, or using the JVC onscreen menu system to customize your television viewing experience.

Notes:

- If you want to cancel the Auto Tuner Setup, press the MENU button.
- Noise muting will not work during Auto Tuner Setup.
- If you choose SKIP, it finished without doing the Auto Tuner Setup.

Cable Box and Satellite Users: After your auto tuner setup is complete, you may, (depending on the type of hookup), have only 1 channel, usually 3 or 4 in the auto tuner memory. This is normal.



The Quick Setup is complete

Remote Programming

Setting the CATV, VCR and DVD Codes

You can program your remote to operate your cable box, satellite receiver, VCR or DVD player by using the instructions and codes listed below. If the equipment does not respond to any of the codes listed below or to the code search function, use the remote control supplied by the manufacturer.

Cable Box or Satellite Codes

The remote control is programmed with cable box and satellite codes for power on/off, channel up/down, and 10 key operation.

- 1) Find the cable box or satellite brand from the list of codes shown below.
 - 2) Slide the 2-way selector switch to "CATV".
 - 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
 - 4) Release the DISPLAY button, and confirm the operation of the cable box/satellite receiver.
- If your cable or satellite box does not respond to the first code, try the others listed. If it does not respond to any code, try the search codes function, on page 26.

Cable Box	CODES	Cable Box	CODES	Digital Satellite Systems	CODES
ABC	024	Puser	032		
Archer	032, 025	RCA	061, 070	Echostar	100, 113, 114, 115
Cableview	051, 032	Realistic	032	Express VU	100, 113
Citizen	022, 051	Regal	058, 064, 040, 041, 042, 045, 068	G.E.	106
Curtis	058, 059			G.I.	108
Diamond	024, 032, 025	Regency	034	Gradiente	112
Eagle	029	Rembrandt	037, 032, 051, 038	Hitachi	104, 111
Eastern	034			HNS (Hughes)	104
GC Brand	032, 051	Samsung	051	Panasonic	105
Gemini	022, 043	Scientific Atlanta	057, 058, 059	Philips	102, 103
General Instrument	065, 024, 025, 026, 027, 020, 021, 022, 057, 023	SLMark	051, 047	Primostar	108
Hamlin	040, 041, 042, 045, 058, 064	Sprucer	051, 056	Proscan	106, 109, 110
Hitachi	049, 024	Stargate	032, 051	RCA	106, 109, 110
Jerrold	065, 024, 025, 026, 027, 020, 021, 022, 057, 023	Telecaption	067	Sony	107
		Televue	047, 051	Star Choice	104, 108
Macom	049, 050, 051, 054	Texscan	044	Toshiba	101
Magnavox	033	Tocom	035, 036, 066	Uniden	102, 103
Memorex	030	Toshiba	050		
Movietime	032, 051	Unika	032, 025		
Oak	039, 037, 048	Universal	022, 032		
Panasonic	055, 056, 060, 071, 073	Videoway	052		
Paragon	063	Viewstar	029, 030		
Philips	028, 029, 030, 052, 053, 031, 069	Zenith	063, 046		
Pioneer	047, 062	Zenith/Drake Satellite	046		
Pulsar	051, 032				

Remote Programming

VCR Codes

The remote control is programmed with VCR codes for power on/off, play, stop, fast-forward, rewind, pause, record, channel up/down operation.

- 1) Find the VCR brand from the list of codes shown below.
 - 2) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "VCR".
 - 3) Press and hold down the DISPLAY button, then enter the first code number listed with the 10 key pad.
 - 4) Release the DISPLAY button, and confirm the operation of the VCR.
- If your VCR does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 26.
 - After you program your remote, some VCR buttons may not work properly. If so, use the VCR's remote.
 - To record, hold down the REC button on the remote and press PLAY.

VCRs	CODES	VCRs	CODES	VCRs	CODES
Admiral	035	Marantz	003, 004, 005	Samsung	037, 060, 062, 033, 089
Aiwa	027, 032, 095	Marta	064	Samtron	089
Akai	029, 072, 073, 074	Memorex	024, 067	Sansui	003, 026, 020, 052
Audio Dynamic	003, 005	MGA	038, 040, 047, 048, 041, 042	Sanyo	063, 067, 091, 071
Bell & Howell	063, 071	Minolta	058, 045, 093	Scott	059, 060, 062, 067, 038, 040, 047, 048, 026, 020
Broksonic	020, 026, 094	Mitsubishi	038, 040, 047, 048, 041, 042, 078, 090	Sears	063, 064, 065, 066, 058, 000, 001
Canon	023, 025	Multitech	047, 027, 062	Shintom	075
CCE	043	NEC	003, 004, 005, 000	Sharp	035, 036, 080, 088
Citizen	064	Olympic	024, 023	Signature 2000	027, 035
Craig	063, 029, 064	Optimus	028, 021, 035, 064	Singer	075
Curtis Mathes	045, 024, 027, 093	Orion	026, 020	Sony	028, 029, 030, 053, 054, 055
Daewoo	043, 059, 024, 092	Panasonic	023, 024, 021, 022	SV 2000	027
DBX	003, 004, 005	Penney	024, 058, 045, 063, 003, 004, 005, 093	Sylvania	031, 023, 024, 027
Dimensia	045, 093	Pentax	058, 005, 045, 093	Symphonic	027, 081
Emerson	043, 026, 077, 061, 025, 042, 020, 076	Philco	031, 024, 027, 023, 026, 020, 043	Tashiro	064
Fisher	063, 066, 067, 065, 071, 091	Philips	031, 023, 024, 086	Tatung	003, 004, 005
Funai	027, 026, 020, 000	Pioneer	023	Teac	003, 004, 027, 005
G.E.	033, 045, 024	Proscan	045, 058, 023, 024, 031, 046, 059, 060, 033, 087, 093	Technics	021, 022, 023, 024
Go Video	037, 051, 049, 050, 089	Quasar	021, 022, 023, 024	Teknika	024, 027, 070
Goldstar	064	Radio Shack	033, 024, 063, 036, 067, 040, 027	Toshiba	059, 046, 079
Gradiente	083, 084, 081, 000, 001	RCA	033, 045, 058, 023, 024, 031, 046, 059, 060, 083, 084, 085, 087, 093	Vector Research	005
Hitachi	023, 045, 058, 027, 081, 093	Realistic	024, 063, 036, 067, 040, 027	Wards	035, 036, 067, 044, 064
Instant Replay	024, 023			Yamaha	063, 003, 004, 005
Jensen	003			Zenith	044, 082, 064, 094
JVC	000, 001, 002, 003, 004, 005				
Kenwood	003, 004, 064, 005				
LXI	027, 064, 058, 065, 066, 063, 067				
Magnavox	031, 023, 024, 086				

Remote Programming

DVD Codes

The remote control is programmed with DVD codes for power on/off, play, stop, fast-forward, rewind, previous/next chapter, tray open/close, and still/pause operation.

- 1) Find the DVD player brand from the list of codes shown below.
 - 2) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "DVD".
 - 3) Press and hold down the Display button, then enter the first code number listed with the 10 key pad.
 - 4) Release the Display button, and confirm the operation of the DVD player.
- If your DVD player does not respond to the first code, try the others listed. If it does not respond to any of the codes, try the search codes function on page 26.
 - After you program your remote, some DVD buttons may not work properly. If so, use the DVD player's remote.

DVD Player		CODES	
Aiwa	043	RCA	021, 026
Apex	040	Sampo	034
Denon	020, 037	Samsung	030
Hitachi	030, 031	Sharp	028
JVC	000	Sylvania	038
Kenwood	035	Sony	024, 045, 046, 047
Konka	039		
Mitsubishi	025	Technics	020
Onkyo	041	Toshiba	023
Oritron	044	Vialta	050
Panasonic	020	Wave	042
Philips	023, 036	Yamaha	020
Pioneer	022	Zenith	027, 032
Raite	033		

Remote Programming

Search Codes

Cable/Satellite Search Codes Function

- 1) Slide the first 2-Way Mode Selector switch to CATV.
- 2) Press the POWER and RETURN+/TV buttons. Hold for at least three seconds and release.
- 3) Press the POWER button on the remote, and see if the cable or satellite box responds.
- 4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times without a response, use the remote control that came with your equipment.
- 5) Press RETURN+/TV to exit.



VCR/DVD Search Codes Function

- 1) Slide the first 2-way selector switch to "TV" and the other 2-way selector switch to "VCR" or "DVD".
- 2) Press the VCR or DVD POWER and RETURN+/TV buttons. Hold for at least three seconds and release.
- 3) Press the VCR or DVD POWER button, and see if the VCR or DVD responds.
- 4) If there was a response, press RETURN+/TV. The codes are now set. If there was no response, repeat Step 3. If you repeat Step 3 a total of 80 times for the VCR (40 times for the DVD player), and there is no response, use the remote control that came with your equipment.
- 5) Press RETURN+/TV to exit.

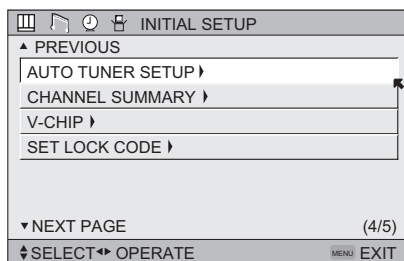
Onscreen Menus

Using the Guide

Certain symbols are used throughout this guide to help you learn about the features of your new television. The ones you will see most frequently are:

- ▲▼ Up and Down arrows mean press the CH+ or CH- buttons. Pressing the CH+ or CH- buttons let you:
 - Move vertically in a main menu screen
 - Move through a submenu screen
 - Move to the next letter, number, or other choice in a submenu
 - Back up to correct an error
 - Scan through TV channels (when not in a menu screen)
- ◀▶ Left and right arrows mean press the VOLUME+ or VOLUME- buttons to move left or right to:
 - Select a highlighted menu item
 - Select an item in a submenu
 - Select numbers in certain menu options
 - Turn the volume up or down (when not in a menu screen)
-  The “press button” icon means you should press the button named on your remote control. (Button names appear in SMALL CAPITAL LETTERS.)
-  The “helping arrow” icon points to the highlighted or selected item in a menu.

To bring up the onscreen menu, press the MENU button on the remote control. The item that appears in green is the one currently selected. If you use the MENU button on the TV's side or front panel instead of the remote, an additional menu screen showing INPUT, VIDEO STATUS and ASPECT will appear between INITIAL SETUP and PICTURE ADJUST. The “interactive plug-in menu” will appear the first time the TV is plugged in.



Note:

- Menus shown in this book are illustrations, not exact replications of the television's onscreen displays.

Onscreen Menus

The Onscreen Menu System

Your television comes with JVC's onscreen menu system. The onscreen menus let you make adjustments to your television's operation simply and quickly. Examples of the onscreen menus are shown on the next page. Detailed explanations on using each menu follow later in this guide. For information about the interactive plug-in Menu, see pages 20 - 22.

The Onscreen Menu System

To open the onscreen menu system, press the MENU button on the remote control. You navigate within the onscreen menus by using the four directional arrow buttons on the remote control. (These buttons are also the CH +/- and VOL +/- buttons. Channel and volume functions will not operate when the onscreen menu is active).

The selected feature and option on a menu screen are highlighted in a different color.

**Selected Option
(Green)**



**Selected Option
(Blue)**

To move to a different feature use the ▲ ▼ arrows to move up or down the list. When you press the up arrow at the top of the list or the down arrow at the bottom, the next menu screen will appear. Use the arrows ◀ ▶ to select an option from the highlighted feature. Pressing MENU on the remote control will close the onscreen menu system and return you to normal television viewing.

Each menu and its features will be discussed in the following pages of this guide.

Notes:

- If you do not press any buttons for a few seconds, the onscreen menu will automatically shut off.
- Button names in this guide are shown in SMALL CAPITAL LETTERS.
- Menus may appear in different sizes onscreen depending on the aspect ratio selected.
- Some menu items may not appear in menu screens when certain aspect ratios or inputs are selected.

Onscreen Menus



Press the MENU button



TO INITIAL SETUP 03



INITIAL SETUP	
▲ PREVIOUS	
AUTO TUNER SETUP ▶	
CHANNEL SUMMARY ▶	
V-CHIP ▶	
SET LOCK CODE ▶	
▼ NEXT PAGE (4/5)	
SELECT ◀ OPERATE	MENU EXIT

CLOCK / TIMERS	
▲ PREVIOUS	
SET CLOCK ▶	
ON / OFF TIMER ▶	
▼ NEXT PAGE	
SELECT ◀ OPERATE	MENU EXIT

INITIAL SETUP	
▲ PREVIOUS	
DIGITAL-IN ▶	
DIGITAL-IN AUDIO (DIGITAL) ▶	
▼ NEXT PAGE (1/5)	
SELECT ◀ OPERATE	MENU EXIT

INITIAL SETUP 04



INITIAL SETUP	
▲ PREVIOUS	
DIGITAL SETUP ▶	
▼ NEXT PAGE (5/5)	
SELECT ◀ OPERATE	MENU EXIT

CLOCK/TIMERS



SOUND ADJUST	
▲ PREVIOUS	
BASS (00) [Slider]	
TREBLE (00) [Slider]	
BALANCE (00) [Slider]	
RESET	
▼ NEXT PAGE	
SELECT ◀ OPERATE	MENU EXIT

INITIAL SETUP 01



INITIAL SETUP	
▲ PREVIOUS	
NOISE MUTING (ON) ▶	
FRONT PANEL LOCK (OFF) ▶	
V1 SMART INPUT (OFF) ▶	
VIDEO INPUT LABEL ▶	
POSITION ADJUSTMENT ▶	
▼ NEXT PAGE (2/5)	
SELECT ◀ OPERATE	MENU EXIT

INITIAL SETUP 05



PICTURE ADJUST	
▲ PREVIOUS STANDARD	
TINT (00) [Slider]	
COLOR (00) [Slider]	
PICTURE (00) [Slider]	
BRIGHT (00) [Slider]	
DETAIL (00) [Slider]	
COLOR TEMPERATURE (LOW) ▶	
▼ NEXT PAGE (1/2)	
SELECT ◀ OPERATE	MENU EXIT

SOUND ADJUST



PICTURE ADJUST	
▲ PREVIOUS STANDARD	
[DIG. NOISE CLEAR] OFF	
NATURAL CINEMA ▶ AUTO ▶	
VSM (ON) ▶	
RESET	
▼ NEXT PAGE (2/2)	
SELECT ◀ OPERATE	MENU EXIT

INITIAL SETUP 02



INITIAL SETUP	
▲ PREVIOUS	
LANGUAGE ENG. FRAN. ESP. ▶	
CLOSED CAPTION ▶	
AUTO SHUT OFF (OFF) ▶	
XDS ID (OFF) ▶	
TILT CORRECTION ▶	
▼ NEXT PAGE (3/5)	
SELECT ◀ OPERATE	MENU EXIT

PICTURE ADJUST 01

PICTURE ADJUST 02



INITIAL SETUP 03



TO INITIAL SETUP 04

Notes:

- The DIGITAL-IN menu can only be displayed when a 480p picture signal is input to the digital-in terminal and the picture is being displayed on the screen.
- When the MENU button on the TV side or front panel is pressed, the FRONT PANEL CONTROL menu between INITIAL SETUP 05 and PICTURE ADJUST 01 will appear.
- POSITION ADJUSTMENT is for AV-30W776 ONLY.
- Regarding the digital setup menu, see page 62.

Initial Setup

Auto Tuner Setup

The auto tuner setup function is described on page 22 as the interactive plug-in menu. If you need to run the auto tuner setup again, follow the steps below.



Press the MENU button



To AUTO TUNER SETUP



To operate



To choose CABLE or AIR

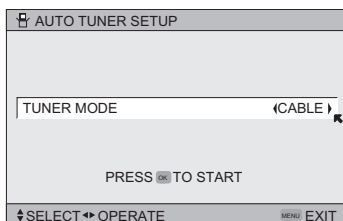


Press the Ok button to start

Programming will take approximately 1 to 2 minutes.

The auto tuner is finished when the message

PROGRAMMING OVER! appears onscreen.



Press the MENU button when finished

Channel Summary

Channel summary allows you to customize the line-up of channels received by your TV.

Regarding analog channels, you can add or delete channels from the line-up or prevent any unauthorized viewers from watching any or all 181 channels. Regarding digital channels, the only channels that will appear are the ones that are broadcasting.



Press the MENU button



To CHANNEL SUMMARY



To operate

The Channel summary screen will now be displayed with the channels set to scan marked with an "√". Regarding analog channels, you can delete channels from the scan by removing the "√". If any channels were missed during auto tuner setup and you wish to add them, you may by placing an "√" next to the channel number.

- Digital channels can not be added to the channel summary if the auto tuner setup did not find them.



To the SCAN column



Press the Ok button to include or delete from scan



Press the MENU button when finished

Analog Channels

CHANNEL SUMMARY							
CHNO.	SCAN	ID	Lock	CHNO.	SCAN	ID	Lock
01				06	✓	HBO	
02	✓	MTV		07	✓	L	
03				08			
04	✓	A&E		09	✓		
05	✓	E!		10			

Digital Channels

Channel Summary Digital									
CH No.	Scan	Station Name	Lock		CH No.	Scan	Station Name	Lock	
D01		FOX			D02	✓	ABC		
D02		ABC			D02	✓	CNN		
D10-1		NBC	✓		D10-2		BOX		
D10-2		BOX			D12345	✓	NHK		
D12345		NHK							

Note:

- The number of a digital channel may change, depending on the time of some broadcastings. If this channel existed and now had disappeared, the lock channel or scanned channel by the channel summary for that channel will be cancelled.

Initial Setup

How to set the channel label. (*This is only for analog broadcasting.*)



Press the MENU button



To CHANNEL SUMMARY



To operate



To the ID column



Press the Ok button to enter



To select the character you want



To move to the next space

...continue to follow these directions for all four spaces



Press the Ok button to finish

Your characters are now set



Press the MENU button when finished

If you want to reset the characters you set:



Press the MENU button



To CHANNEL SUMMARY



To operate



To the ID column



Press the Ok button to enter



To select RESET



Press the Ok button to finish

Your characters are now reset

Notes:

- You can use characters for: Alphabet, numbers, marks and spaces.
- It is possible to set the maximum of 40 channel labels.
- If you try to set more than the 40 maximum, the message "MEMORY OVERFLOW" will appear.

You can block access to a channel by activating the channel lock.



Press the MENU button



To CHANNEL SUMMARY



To operate



To the Lock Column ()



Press the ZERO button to lock or unlock that channel



Press the MENU button when finished

Initial Setup

Channel Guard Message

When a viewer attempts to watch a guarded channel, the following message appears:

To watch a channel that you have locked, enter the Lock Code using the 10 key pad.

If the wrong code is entered, the message "INVALID LOCK CODE!" will flash on the screen.

The channel cannot be accessed until the correct code is entered.

THIS CHANNEL IS LOCKED BY
CHANNEL GUARD.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.

No. ----

Notes:

- Once a channel has been unlocked, it will remain unlocked until the television is turned off.
- See also "Set Lock Code", page 38.

V-Chip

Your TV is equipped with V-Chip technology which enables you to block channels or content that you feel to be inappropriate for children, based on US and Canada rating guidelines. V-Chip has no effect on video signals from a DVD discs, VCR tapes or Camcorder connection.

Note: Some programs, and movies are broadcast without a ratings signal. Even if you set up V-CHIP ratings limits, these programs will not be blocked. See page 33 for information on how to block unrated programs.

Note (for Canadian viewers): The V-Chip function is based on specifications designed for the United States and therefore may not work properly in Canada.

You can customize the V-Chip settings of your television to match your personal tastes. The V-Chip menu below is the starting point for your V-Chip settings

You can use US V-Chip settings (for programming broadcast from the United States), Canadian V-Chip settings (for programming broadcast from Canada), and movie ratings. You may use any or all of the settings (US V-Chip, Canada V-Chip, Movie ratings). Descriptions for setting each of the three V-Chip formats appear in the next six pages along with descriptions of the rating categories.

To access the rating categories:



Press the MENU button



To V-CHIP



To operate (Lock icon  will appear)



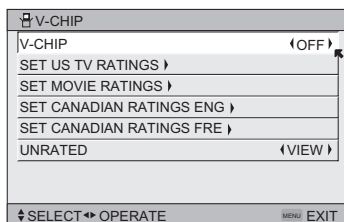
Press ZERO to access the V-Chip menu



To turn V-Chip ON or OFF (V-Chip must be turned ON for rating settings to operate)



To move to SET US TV RATINGS, SET MOVIE RATINGS, or SET CANADIAN RATINGS (see following pages for descriptions of each item)



Initial Setup

Unrated Programs

Unrated programming refers to any programming which does not contain a rating signal. Programming on television stations which do not broadcast rating signals will be placed in the "Unrated Programming" category.

Examples of Unrated programs:

- Emergency Bulletins
- News
- Public Service Announcements
- Sports
- Some Commercials
- Locally Originated Programming
- Political Programs
- Religious Programs
- Weather

Note:

- TV programs or movies that do not have rating signals will be blocked if the unrated category is set to BLOCK.

Directions to Block Unrated Programs

You can block programs that are not rated.



Press the MENU button



To V-CHIP



To operate (The lock icon  appears)



Press ZERO to access V-Chip setup options



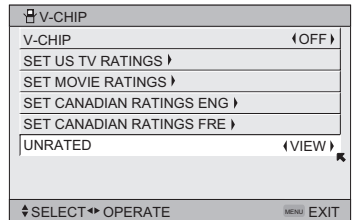
To UNRATED



To VIEW or BLOCK



Press MENU when done



Initial Setup

US V-Chip Ratings

U.S. PARENTAL RATING SYSTEMS

Programs with the following ratings are appropriate for children.

☐ **TV Y is Appropriate for All Children**

Programs are created for very young viewers and should be suitable for all ages, including children ages 2 - 6.

☐ **TV Y7 is for Older Children**

Most parents would find such programs suitable for children 7 and above. These programs may contain some mild fantasy violence or comedic violence, which children should be able to discern from reality.

Programs with the following ratings are designed for the entire audience.

☐ **TV G stands for General Audience**

Most parents would find these programs suitable for all age groups. They contain little or no violence, no strong language, and little or no sexual dialog or situations.

☐ **TV PG Parental Guidance Suggested**

May contain some, but not much, strong language, limited violence, and some suggestive sexual dialog or situations. It is recommended that parents watch these programs first, or with their children.

☐ **TV 14 Parents Strongly Cautioned**

Programs contain some material that may be unsuitable for children under the age of 14 including possible intense violence, sexual situations, strong coarse language, or intensely suggestive dialog. Parents are cautioned against unattended viewing by children under 14.

☐ **TV MA Mature Audiences Only**

These programs are specifically for adults and may be unsuitable for anyone under 17 years of age. TV MA programs may have extensive V, S, L, or D.

Viewing Guidelines

In addition to the ratings categories explained above, information on specific kinds of content are also supplied with the V-Chip rating. These types of content may also be blocked. The content types are:

- **V/FV** is for VIOLENCE/FANTASY VIOLENCE
- **S** stands for SEXUAL CONTENT
- **L** stands for strong LANGUAGE
- **D** stands for suggestive DIALOG

Initial Setup

Setting US V-Chip Ratings




Press the MENU button



To V-CHIP



To operate (lock icon  appears)



Press ZERO to access the V-Chip menu



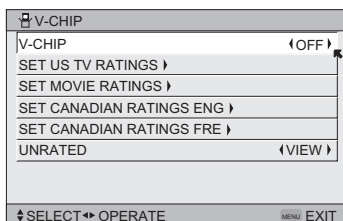
To turn V-Chip ON or OFF






To move to SET US TV RATINGS



To operate



Directions to set US V-Chip Ratings

Line up the cursor in the column (TV PG, TV G, etc.) with the content row (V/FV, S, etc.) and press the  or  to move the cursor to the correct location. Press Ok to turn the locking feature on or off. An item is locked if the  icon appears instead of a “—”.

For example. To block viewing of all TV 14 shows, move the cursor to the top row of that column and add a lock icon. Once you've put a lock on the top row, everything in that column is automatically locked.



To the TV 14 Column



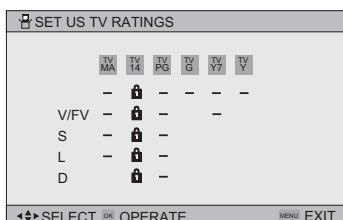
Press the Ok button to lock



Press the MENU button when finished

Note:

- If you want to change the setup, move the cursor to the top column and change the lock icon to “—” by pressing Ok again. You may then select individual categories to block.



Initial Setup

Movies Ratings

☐ **NR – Not Rated**

This is a film which has no rating. In many cases these films were imported from countries which do not use the MPAA ratings system. Other NR films may be from amateur producers who didn't intend to have their film widely released.

NR (Not Rated) Programming may contain all types of programming including children's programming, foreign programs, or adult material.

☐ **G – General Audience**

In the opinion of the review board, these films contain nothing in the way of sexual content, violence, or language that would be unsuitable for audiences of any age.

☐ **PG – Parental Guidance**

Parental Guidance means the movie may contain some contents such as mild violence, some brief nudity, and strong language. The contents are not deemed intense.

☐ **PG-13 – Parents Strongly Cautioned**

Parents with children under 13 are cautioned that the content of movies with this rating may include more explicit sexual, language, and violence content than movies rated PG.

☐ **R – Restricted**

These films contain material that is explicit in nature and is not recommended for unsupervised children under the age of 17.

☐ **NC-17 – No One Under 17**

These movies contain content which most parents would feel is too adult for their children to view. Content can consist of strong language, nudity, violence, and suggestive or explicit subject matter.

☐ **X – No One under 18**

Inappropriate material for anyone under 18.

Directions to set Movie (MPAA) Ratings



Press the MENU button



To V-CHIP



To operate (Lock icon  appears)



Press ZERO to access V-Chip setup options



To SET MOVIE RATINGS



To enter movies menu

For example:

To block viewing of X and NC-17 rated from shows:



To the X Column



Press the Ok button to lock



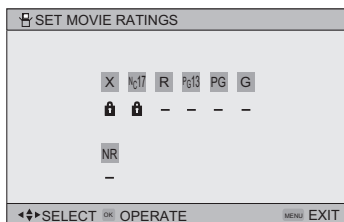
To the NC-17 Column



Press the Ok button to lock



Press the MENU button to finish



Initial Setup

Canadian V-Chip Ratings

E – Exempt

Exempt programming includes: news, sports, documentaries and other information programming, talk shows, music videos, and variety programming.

C – Programming Intended for Children

Violence Guidelines: There will be no realistic scenes of violence. Depictions of aggressive behavior will be infrequent and limited to portrayals that are clearly imaginary, comedic or unrealistic in nature.

C8+ – Programming Intended for Children 8 and Over

Violence Guidelines: Any realistic depictions of violence will be infrequent, discreet, of low intensity and will show the consequences of the acts. There will be no offensive language, nudity or sexual content.

G – General Audience

Programming will contain little violence and will be sensitive to themes which could affect younger children.

PG – Parental Guidance

Programming intended for a general audience, but which may not be suitable for younger children. Parents may consider some content not appropriate for children aged 8-13.

14+ – 14 Years and Older

Parents are strongly cautioned to exercise discretion in permitting viewing by pre-teens and early teens. Programming may contain mature themes and scenes of intense violence.

18+ – Adult

Material intended for mature audiences only.

Directions to set Canadian V-Chip Ratings



Press the MENU button



To V-CHIP



To operate (lock icon  appears)



Press ZERO to access V-Chip setup options



To SET CANADIAN RATINGS ENG (for English)



To enter ratings menu

For example:

To block viewing of programming rated 14+ and 18+:



To the 18+ Column



Press the Ok button to lock



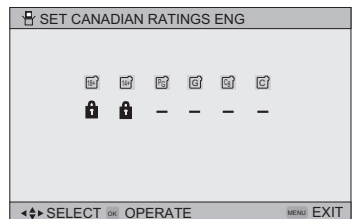
To the 14+ Column



Press the Ok button to lock



Press the MENU button to finish



Note:

- For instructions on “SET CANADIAN RATINGS FRE (in French)”, please see page 37 in the French side of this user’s guide.

Initial Setup

Set Lock Code

Channel guard and V-Chip settings are protected by a four-digit lock code. Your TV comes pre-set with a lock code of "0000". You may change the code to any four-digit number you wish. To change the lock code, follow the steps below.



Press the MENU button



To SET LOCK CODE



To operate (lock icon  appears)



Press ZERO to access the lock code

The first digit will be highlighted



To select the number



To move to the next digit

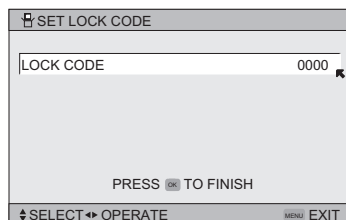
Continue to follow these directions for all four numbers



Press the Ok button to finish (your lock code is now set)



Press the MENU button when finished



When a viewer attempts to watch a blocked channel, this message appears:

The channel will remain blocked until the correct lock code is entered (see above for information on setting your lock code).

THIS PROGRAMMING EXCEEDS
YOUR RATING LIMITS.
PLEASE ENTER LOCK CODE BY
10 KEY PAD TO UNLOCK IT.
No. - - - -

Notes:

- After a power interruption you must reset the lock code.
- Write your lock code number down and keep it hidden from potential viewers.
- If you forget the lock code, a new code may be set using the steps listed above.

Initial Setup

Language

The language function is described on page 20 as the interactive plug-in menu. If you need to choose the language again, follow the steps below.



Press the MENU button



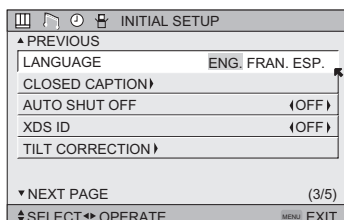
To LANGUAGE



To choose a language: ENG. (English), FRAN. (French) or ESP. (Spanish)



Press the MENU button when finished



Initial Setup

Closed Caption

Many broadcasts now include an onscreen display of dialog called closed captions. Some broadcasts may also include displays of additional information in text form. Your television can access and display this information using the closed caption feature. To activate the closed caption feature, follow the steps below. There are three methods. When you are watching analog channels, you can perform Analog Setting of closed caption. When you are watching digital channels, you can perform Digital Auto Setting or Digital Manual Setting.

Analog Setting



Press the MENU button



To CLOSED CAPTION



To enter



To MODE



To select CAPTION or TEXT in MODE



To CAPTION or TEXT



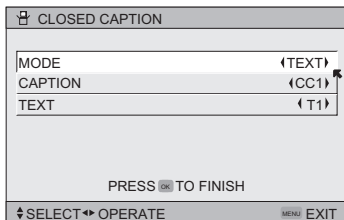
To select a caption (CC1 to CC4) or text channel (T1 to T4)



Press the Ok button to save



Press the MENU button when finished



Digital Auto Setting



Press the MENU button



To CLOSED CAPTION



To enter



To Type



To select Auto, Advanced or Basic

Auto: Shows closed caption a priority for digital channels over analog channels. It is set automatically.

Advanced: Shows only the digital closed caption.

Basic: Shows only the analog closed caption.



To Service



To select 1, 2, 3, 4, 5 or 6



To Appearance



To enter



To select Auto



To Set

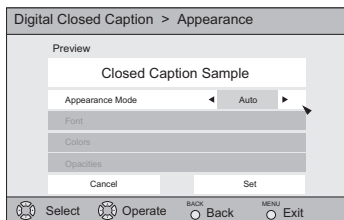
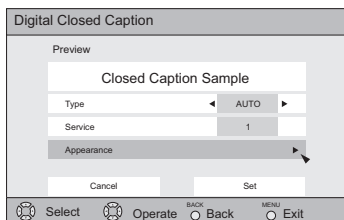


Press the Ok button to save

The font/type and color are set automatically.



Press the MENU button when finished



Note:

- If you want to cancel the settings, select cancel.

Initial Setup

Digital Manual Setting



Press the MENU button



To CLOSED CAPTION



To enter



To Type



To select Auto, Advanced or Basic



To Service



To select 1, 2, 3, 4, 5 or 6



To Appearance



To enter



To select Manual



To Font



To enter



To select Font Size or Font Style



To select the setting you like

Font Size: Auto, Standard, Large or Small

Font Style: Auto, Serif Mono, Serif, Sanserif mono, Sanserif, Casual, Cursive or Small Capital



To Set



Press the Ok button to save



To Colors



To enter



To select Text, Edge or Background



To select the setting you like

Auto, White, Black, Red, Green, Blue,
Yellow, Magenta or Cyan



To Set



Press the Ok button to save



To Opacities



To enter



To select Text/Edge or Background



To select Auto, Transparent, Translucent, Solid
or Flashing



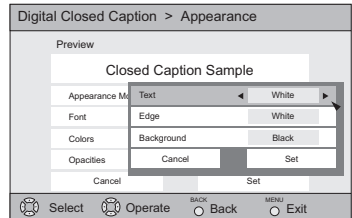
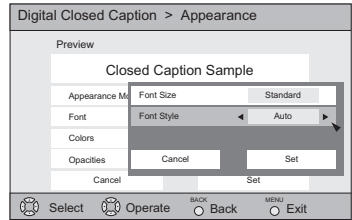
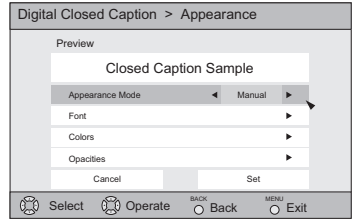
To Set



Press the Ok button to save



Press the MENU button when finished



All fonts used for digital closed caption and digital menus are licensed from Monotype Imaging Inc.

Notes:

- Closed caption subtitles are usually found on closed caption channel CC1. Some programs may include additional text information which is usually found on text channel T1. The other channels are available for future use.
- Closed captioning may not work correctly if the signal being received is weak or if you are playing a video tape.
- Most broadcasts containing closed captioning will display a notice at the start of the program.
- To select the mode, press the C.C. button. See page 55.

Initial Setup

Auto Shut Off

This function automatically shuts off your TV when there is no signal from the channel the TV is on.



Press the MENU button



To AUTO SHUT OFF

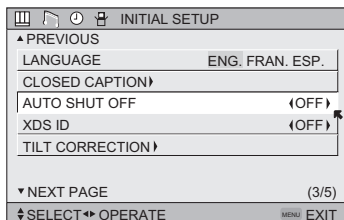


To turn ON or OFF



Press the MENU button when finished

- If the channel that you have on does not receive a signal for more than one minute, the blinking text "NOT RECEIVING A SIGNAL AUTO SHUT OFF IN 9 MIN." appears on the screen, and starts the countdown. If no signal is being received within 10 minutes, the TV shuts itself off.



XDS ID

XDS ID Display provides a channel's call letters, the network's name, and even a program name. The XDS ID information is provided by the broadcaster.



Press the MENU button



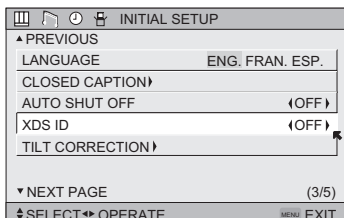
To XDS ID



To turn ON or OFF



Press the MENU button when finished



Tilt Correction

This adjusts the pictures so that it looks even on the screen and not lopsided.



Press the MENU button



To TILT CORRECTION



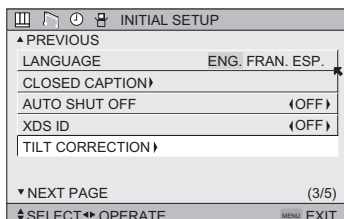
To enter



To adjust TILT CORRECTION



Press the MENU button when finished



Initial Setup

Noise Muting

This feature inserts a blank blue screen over channels which are not broadcasting or are too weak to be received clearly.



Press the MENU button



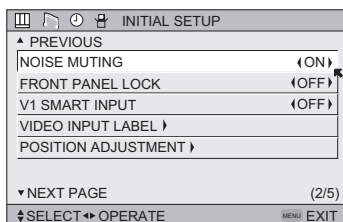
To NOISE MUTING



To turn noise muting ON or OFF



Press the MENU button when finished



Note:

- Noise muting will not work during auto tuner setup or when you operate channel summary.
- Noise muting will not work when the digital TV is displayed.

Front Panel Lock

This allows you to lock the keys on the front of the TV, so that a child may not accidentally change your viewing preferences.



Press the MENU button



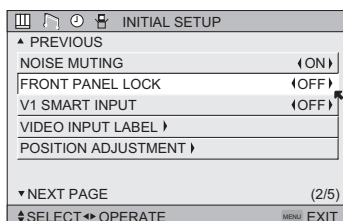
To FRONT PANEL LOCK



To turn ON or OFF



Press the MENU button when finished



You can turn off this feature in the following ways:

- Unplug the power cord, and plug it back in. Do this if your batteries die, or you lose your remote control.
- Use the remote control.
- Press the MENU button on the front of the TV for more than 3 seconds. In this case, the OSD for FRONT PANEL LOCK will appear.

Note:

- To turn ON/OFF the TV, press the POWER button for more than 3 seconds. This feature will remain ON.

Initial Setup

V1 Smart Input

This feature is used if you have connected an AV Receiver to your television. By turning this feature on, your television can automatically detect the signal source from your components that are connected to your AV Receiver.



Press the MENU button



To V1 SMART INPUT



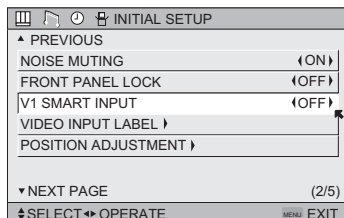
To turn ON or OFF



Press the MENU button when finished

Notes:

- If you do not have an AV Receiver connected to your television, turn this feature OFF.
- Some AV Receivers may not work with this function.



Video Input Label

This function is used to label video input connections for the onscreen displays.



Press the MENU button



To VIDEO INPUT LABEL



To operate



To select the desired video input



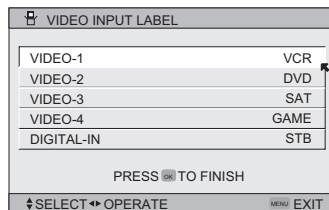
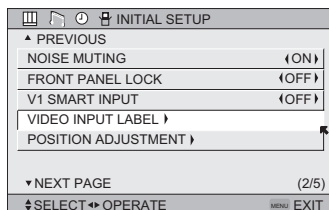
To select the desired preset input label (see chart below)



Press the Ok button to save



Press the MENU button when finished



Preset Labels	Select when...
VCR	You have a VCR connected to the video input
DVD	You have a DVD connected to the video input
D-VHS	You have a Digital VCR connected to the video input
STB	You have a Set-top Box connected to the video input
SAT	You have a Satellite Receiver connected to the video input
AMP	You have an Amplifier connected to the video input
GAME	You have a Video Game connected to the video input
CAM	You have a Video Camera connected to the video input
DISC	You have a Video Disc player connected to the video input

Position Adjustment

Position adjustment allows you to adjust the position of the picture on the screen vertically when the aspect is set to panorama, cinema, or full.



Press the MENU button



To POSITION ADJUSTMENT



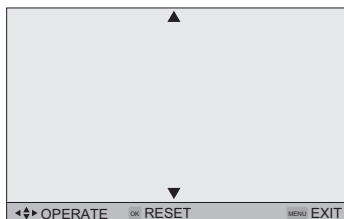
To enter



To adjust the position



Press the MENU button to finish



Notes:

- POSITION ADJUSTMENT is for AV-30W776 ONLY.
- To reset the adjustment to the center, press the Ok button.
- When the arrow disappears, while you are adjusting the position, the position is at it's maximum limit.
- If you select regular size with aspect, position adjustment option is not seen.
- When you change the screen size, perform the position adjustment again.
- Position adjustment allows you to adjust the screen position vertically and horizontally when the aspect is set HD panorama or cinema zoom for 1080i and 720p signals.

Initial Setup

Digital-In

The DIGITAL-IN option can only be displayed in the INITIAL SETUP menu when a HDMI480p picture signal is being input to the DIGITAL-IN terminal. This option adjusts the position when a HDMI or DVI 480p picture signal is being displayed on the screen. There are two types of HDMI480p picture signals: 640x480 and 720x480. If the displayed picture is slightly shifted, the position can be adjusted by selecting either AUTO, SIZE1 or SIZE2.



Press the MENU button



To DIGITAL-IN



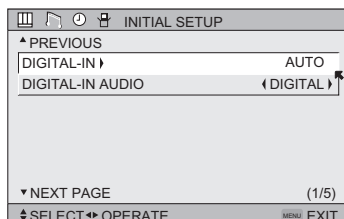
To enter



To select AUTO, SIZE1 or SIZE2



Press the MENU button to finish



Note:

- The DIGITAL-IN menu can only be displayed when a HDMI or DVI 480p picture signal is input to the Digital-In terminal and the picture is being displayed on the screen.

Digital-In Audio

This feature is used if you have a DTV or HDMI compatible component connected to your TV.



Press the MENU button



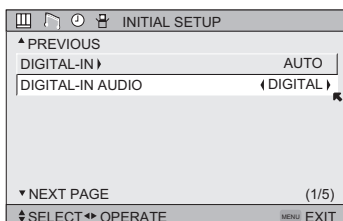
To DIGITAL-IN AUDIO



To select "ANALOG", "DIGITAL" or AUTO



Press the MENU button when finished



Notes:

- If your DTV or HDMI component is capable of digital audio and video, choose DIGITAL. If your DTV or HDMI component is capable of analog audio and digital video, choose ANALOG.
- Refer to your DTV or HDMI component's instruction manual for more information.
- When you select AUTO, the television will select "ANALOG" or "DIGITAL" automatically, depending on the audio input from the HDMI.
- When you select DIGITAL, select PCM on Digital Sound in the Digital Setup menu. See page 63.

Picture Adjust

Picture Settings

These settings allow you to change and adjust the way the picture appears on your television.

TINT

Tint allows you to adjust the levels of red and green in your TV picture.

COLOR

The color function lets you make all the colors in the TV picture appear either more vivid or subtle.

PICTURE

Picture allows you to adjust the levels of black and white on the TV screen, giving you a darker or brighter picture overall.

BRIGHT

You can adjust the overall brightness of the TV picture with the Bright control.

DETAIL

The Detail feature adjusts the level of fine detail displayed in the picture.

Adjust the Picture Settings



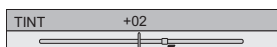
Press the MENU button



To TINT, COLOR, PICTURE, BRIGHT or DETAIL



To enter



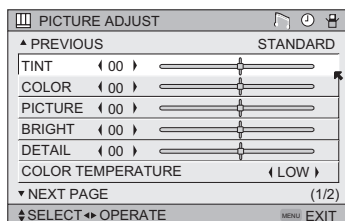
To adjust the setting



To move to the next setting



Press the MENU button when finished



Color Temperature

You can decide how strong or dull the colors appear on the TV screen.



Press the MENU button



To COLOR TEMPERATURE



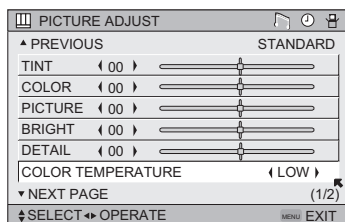
To enter



To set LOW or HIGH



Press the MENU button when finished



Digital Noise Clear

With digital noise clear, this helps take our static or noise from a channel that may not be coming in clearly.



Press the MENU button



To DIG. NOISE CLEAR



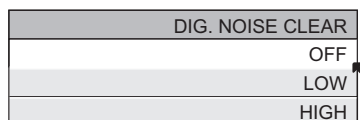
To enter



To select the mode "LOW", "HIGH" or "OFF"



Press the MENU button when finished



Picture Adjust

Natural Cinema

Natural cinema corrects the problem of blurred edges which may occur when viewing a program originally shot on film (such as motion pictures) or animation. If you notice blurring at the edges of these programs, choose NATURAL CINEMA and set it to AUTO. Natural Cinema helps correct conversion errors that occur when film, which is shot at 24 frames-per-second, is broadcast at the television rate of 30 frames-per-second.



Press the MENU button

NATURAL CINEMA	
	AUTO
	ON
	OFF



To NATURAL CINEMA



To enter



To select the mode "AUTO", "ON" or "OFF"



Press the MENU button when finished

Notes: The natural cinema mode is automatically set to "AUTO" in the following cases:

- Turning on or off
- Changing the channel or input mode
- Using multi-screen functions

(VSM) Velocity Scan Modulation

Velocity scan modulation circuitry varies the electron beam's horizontal scanning speed to help accentuate the differences in picture brightness to sharpen the edges of images.



Press the MENU button



To VSM



To enter

VSM	ON	OFF
-----	----	-----



To turn VSM ON or OFF



Press the MENU button when finished

PICTURE ADJUST	
▲ PREVIOUS	STANDARD
DIG. NOISE CLEAR▶	OFF
NATURAL CINEMA▶	AUTO
VSM	ON▶
RESET	
▼ NEXT PAGE	(2/2)
SELECT◀▶ OPERATE	MENU EXIT

Reset

Reset resets all picture adjustments (tint, color, picture, bright, detail, color temperature, dig. noise clear and VSM) at once to the default settings.



Press the MENU button



To RESET



To enter

The onscreen menu disappears for a moment, and then the settings are reset to the default setting for all the picture adjustments.



Press the MENU button when finished

PICTURE ADJUST	
▲ PREVIOUS	STANDARD
DIG. NOISE CLEAR▶	OFF
NATURAL CINEMA▶	AUTO
VSM	ON▶
RESET	
▼ NEXT PAGE	(2/2)
SELECT◀▶ OPERATE	MENU EXIT

Sound Adjust

Sound Settings

These settings allow you to change and adjust the sound on your television.

BASS – You can increase or decrease the level of low-frequency sound in the TV's audio with the bass adjustment.

TREBLE – Use treble to adjust the level of high-frequency sound in your TV's audio.

BALANCE – Adjust the level of sound between the TV's left and right speakers with the balance setting.

Adjust the Sound Settings



Press the MENU button



To BASS, TREBLE or BALANCE



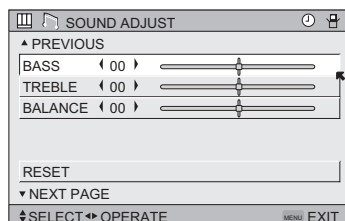
To adjust the setting



To move to the next setting



Press the MENU button when finished



Notes:

- You can reset the sound adjustments (BASS, TREBLE and BALANCE) you set at once as the default setting when you select reset. See page 48.
- You can adjust BALANCE only when HYPER SURROUND is off. See page 53.

Reset

Reset resets all Sound Adjustments (Bass, Treble and Balance) at once to the default settings. See page 48 on how to use reset.

Clock/Timers

Set Clock

The set clock function is described on page 21 as the interactive plug-in menu. You can choose to set the clock automatically, or manually. If you need to set the clock again, follow the steps below.



Press the MENU button



To SET CLOCK



To operate

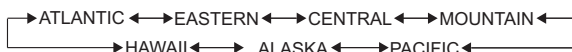
When you set the clock automatically, choose AUTO by pressing the ◀ or ▶ arrows.



To TIME ZONE



To select your time zone



To D.S.T. (daylight savings time)



To turn D.S.T. ON or OFF



Press Ok to finish



Press the MENU button when finished

⌚ SET CLOCK

MODE	◀ AUTO ▶
TIME	-- : --
TIME ZONE	◀ ATLANTIC ▶
D.S.T.	◀ ON ▶

PRESS [OK] TO FINISH

⬅ SELECT ➡ OPERATE MENU EXIT

When you set the clock manually, choose MANUAL by pressing the ◀ or ▶ arrows.



To move to the hour



To set the hour



To move to minutes



To set the minutes



To TIME ZONE



To select your time zone:

(Atlantic, Eastern, Central, Mountain, Pacific, Alaska or Hawaii)



To D.S.T. (daylight savings time)



To turn D.S.T. ON or OFF



Press Ok to start clock

THANK YOU !!



Press the MENU button when finished

⌚ SET CLOCK

MODE	◀ MANUAL ▶
TIME	-- : --
TIME ZONE	◀ ATLANTIC ▶
D.S.T.	◀ ON ▶

PRESS [OK] TO START CLOCK

⬅ SELECT ➡ OPERATE MENU EXIT

Notes:

- D.S.T. can be used only for US and Canada when it is set to ON in the SET CLOCK menu.
- Only when the MODE set to AUTO, the Daylight Savings Time feature automatically adjusts your TV's clock for Daylight Savings. The clock will move forward one hour at 2:00 am on the first Sunday in April. The clock will move back one hour at 2:00 am on the last Sunday in October.
- You will have to reset the clock after a power interruption. You must set the clock before operating any timer functions.

On/Off Timer

The on/off timer lets you program your television to turn itself on or off. You can use it as an alarm to wake up, to help you remember important programs, or as a decoy when you're not home.



Press the MENU button



To ON/OFF TIMER



To operate (begins with ON TIME)



To set the hour (AM/PM) you want the TV to turn on



To move to minutes



To set the minutes



To accept ON TIME and move to OFF TIME (the time the TV will turn off). Set the OFF TIME the same way as ON TIME



To accept OFF TIME and move to CHANNEL



To select channel



To ON VOLUME



To set the volume level



To move to MODE



Choose ONCE or EVERYDAY



To ON/OFF TIMER



Choose YES to accept the timer setting, choose NO if you don't wish to accept



Press the Ok button to finish



Press the MENU button to exit the menu

ON/OFF TIMER	
ON TIME	7:00 PM
OFF TIME	10:00 PM
CHANNEL	03
ON VOLUME	CURRENT
MODE	⟨ EVERYDAY ⟩
ON/OFF TIMER	⟨ NO ⟩
PRESS [OK] TO FINISH	
SELECT [Left/Right] OPERATE	MENU EXIT

Notes:

- The on/off time cannot be set to locked or guarded channels.
- In order for the on/off timer to work, the clock must be set.
- After a power interruption, the timer settings must be reset.

Button Functions

Power

Turns the TV on or off.



Press the POWER button

Number Buttons - 10Key Pad

Use the number buttons on the remote control to move directly to a specific channel. For example, to move to channel 12:



0 (ZERO)



1 (ONE)



2 (TWO)

Tune

Lets you decide the input channel and select it. After you press the number buttons on the remote, press the TUNE button. For example, to move to channel 12:



1 (ONE)



2 (TWO)



Press the TUNE button

Input

Selects the signal input source for the television: Input-1, 2, 3, 4 or DIGITAL-IN for video devices like VCR's DVD players, or camcorders.



Press the INPUT button

By every press of the INPUT button, you can change the input mode.

Notes:

- When you return to TV mode, press the RETURN+/TV button or direct 10 key pad.
- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side or front of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose INPUT by pressing Menu ▼ on the side or front panel and choose a mode by using the CHANNEL+/- buttons (◀ OPERATE ▶).

Channel +/-

Use these buttons to move up or down all the available channels your TV is able to receive.

Volume +/-

Use these buttons to raise or lower the TV's volume level.

Button Functions

Return +/-TV

The Return+/-TV button has two functions:

Return - Returns to the channel viewed just before the channel currently onscreen.

Return+ - Lets you program a specific channel to return to while scanning through the channels using the CH+ and CH- buttons.



RETURN+/-TV and hold for three seconds

RETURN CHANNEL
PROGRAMMED!

The channel currently active has been programmed as your return+ channel. Now scan through the channels using the CHANNEL+/- buttons.



RETURN+/-TV

You will return to your programmed channel.

- To cancel your return+ channel, press and hold the RETURN+/-TV button for three seconds. The message "RETURN CHANNEL CANCELLED!" will appear.
- Return+ works only with the CHANNEL+/- buttons. Pressing any number key will cancel return+.

Sound

By pressing the SOUND button, you can change the Hyper Surround mode, BBE and SMART SOUND on or off.

HYPER SURROUND - Adds a more spacious surround sound. Music gives basic effect and movie for more effect.

BBE - BBE High Definition Sound restores clarity and presence for better speech intelligibility and musical realism.

SMART SOUND - Decreases high sound levels, giving a regulated sound level.



Press the SOUND button



To select HYPER SURROUND, BBE or SMART SOUND



To choose the setting



Press the MENU when finished

SOUND EFFECT	
HYPER SURROUND	ON OFF
BBE	ON OFF
SMART SOUND	ON OFF
SELECT OPERATE MENU EXIT	

Note:

- BBE and SMART SOUND is for models AV-27S776, AV-32S776, AV-30W776 ONLY.

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Muting

The MUTING button instantly turns the volume down completely when you press it. Press MUTING and the volume level will instantly go to zero. To restore the volume to its previous level, press MUTING again.

Button Functions

Video Status

The Video Status button gives you a choice of four TV picture display settings, including a display of your own preferences.

Standard - Resets the picture display to the factory settings.

Dynamic - Gives a vivid picture with better contrast when viewing in a brightly lit room.

Theater - Gives a rich, film-like look to video when viewing in a dimly lit room.

Game - Used for when you are playing video games connected to your TV.

VIDEO STATUS
STANDARD
DYNAMIC
THEATER
GAME



Press the VIDEO STATUS button

By every press of the VIDEO STATUS button, you change the mode.

Note:

- You can also change the mode by pressing the ▲▼ buttons.
- You can also access the FRONT PANEL CONTROL screen by using the MENU button on the side or front of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose VIDEO STATUS by pressing Menu ▼ on the side or front panel and choose a mode by using the CHANNEL+/- buttons (◀ OPERATE ▶).

TheaterPro D6500K

The TheaterPro D6500K color temperature technology function makes sure that the video you watch is set to the standard color temperature, so that what you see is as true to what the film to video editors intended it to be.



Press the THEATERPRO button

Sleep Timer

The Sleep Timer can turn the TV off for you after you fall asleep. Program it to work in intervals of 15 minutes, for a total time of up to 180 minutes.



Press the SLEEP TIMER button



Sleep Timer Message

60 seconds before the automatic shutoff, this message will appear:

GOOD NIGHT!!
PUSH SLEEP TIMER BUTTON
TO EXTEND

You then have 60 seconds to press the SLEEP TIMER button to delay the shut off for another 15 minutes.

Button Functions

Display

The display screen shows the current status of timers, inputs, and XDS ID.

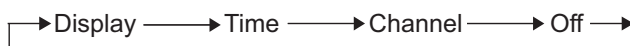


Press the DISPLAY button

The screen to the right shows the following information:

- The current channel or AV input (Channel 05)
- The current time (12:20 pm)
- Sleep timer status/minutes remaining (The Sleep Timer is off)
- On/off timer status (Set to turn on everyday at 7:00 PM, off at 10:00 PM)
- Each Press of the DISPLAY button changes the display mode:

05 KLVX PBS	
JAZZ FESTIVAL	
NOW	12:20 PM
SLEEP TIMER	OFF
ON/OFF TIMER	EVERYDAY
ON TIME	7:00 PM
OFF TIME	10:00 PM



Display - Full screen shown above

Time - Shows the current time only

Channel - Shows the current channel

Off - Turns display off

Notes:

- You may also turn off the display at any step by pressing MENU.
- If the clock, sleep timer or on/off timer are not set, the display screen will show: "CLOCK NOT SET", "SLEEP TIMER OFF", and "ON/OFF TIMER OFF" respectively.

C.C. (Closed Caption)

Use the C.C. (Closed Caption) button to select the mode of closed caption.



Press the C.C. button

Notes:

- SMART CAPTION is for models AV-27S776, AV-32S776, AV-30W776 ONLY.
- Smart Caption will appear when you press the Muting button, only on channels where the broadcast contains closed captioning.
- When you select ON, it will be the mode selected in the Closed Caption Menu.
- See page 40 when you set the caption/text mode.
- You can also change the mode by pressing the ▲▼ buttons.

CLOSED CAPTION
OFF
SMART CAPTION
ON

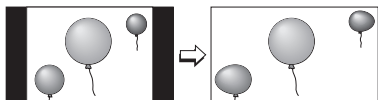
Button Functions

Aspect

This feature will help you adjust the picture you are watching to give you the best possible picture quality.

Aspect Ratios - AV-30W776

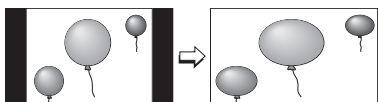
PANORAMA - With this ratio a normal 4:3 aspect picture is stretched to fit the dimensions of the 16:9 aspect screen.



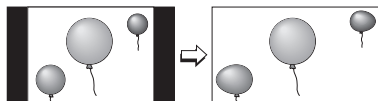
CINEMA - This ratio "zooms in" on the center part of a 4:3 aspect picture, blowing it up to fill the 16:9 screen.



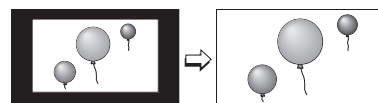
FULL - This is the ratio to use when watching 16:9 High-Definition broadcasts.



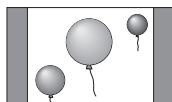
PANORAMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black side bars.



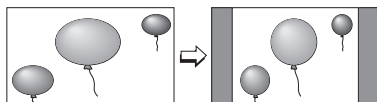
CINEMA ZOOM - This ratio stretches the High-Definition 16:9 aspect image to eliminate the black surrounding bars.



REGULAR - The regular ratio is used when you want to watch a 4:3 broadcast or recorded program without modifying the original picture to fit the dimensions of your 16:9 screen. The 4:3 picture will fill the screen from top to bottom, while gray bars will appear to fill up the remaining space along the picture's sides. The 4:3 picture will be centered within the boundaries of the 16:9 screen.



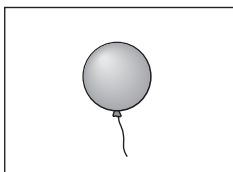
SLIM - This aspect mode shrinks the screen of 16:9 to 4:3. There are some programming that is already stretched by mistake at broadcasting companies, so this mode corrects it. Gray side bars will appear.



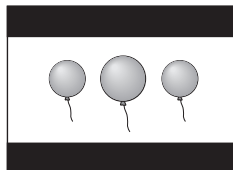
Button Functions

Aspect Ratios - AV-27S776, AV-32S776, AV-32S766

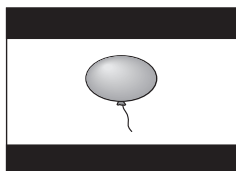
4:3 - Use this aspect mode when you are watching a 4:3 broadcast.



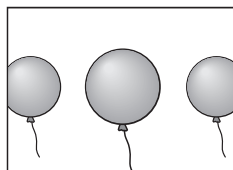
16:9 - Use this aspect mode when you are watching a 16:9 broadcast. This is also referred to as "widescreen", for example on a DVD disc. When you select this mode, black bars will appear on the top and bottom of the TV screen.



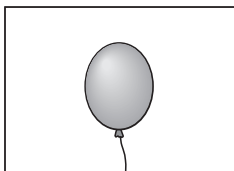
16:9 - If you select 16:9 aspect mode while watching a 4:3 broadcast, this will stretch the picture so as to fit into the 16:9 format. When you select this mode, black bars will appear on the top and bottom of the TV screen.



HD ZOOM - If you are watching a 4:3 high definition broadcast and you select this aspect mode, it will zoom in on the picture.



V STRETCH - If you are watching a 4:3 broadcast, this aspect mode will stretch the picture vertically on your TV



Button Functions

Aspect Ratios (Continued)



Press the ASPECT button

- By pressing the ASPECT button, you can change the size.

When you change the aspect ratios, it is different from their broadcast or recorded program.

AV-30W776

NTSC, 480i, 480p

ASPECT
PANORAMA
CINEMA
FULL
REGULAR

HD (1080i, 720p)

ATSC (1080i, 720p)

ASPECT
PANORAMA ZOOM
CINEMA ZOOM
FULL

ATSC (480i, 480p)

ASPECT
PANORAMA ZOOM
CINEMA ZOOM
FULL
SLIM

AV-27S776, AV-32S776, AV-32S766

NTSC, 480i, 480p	ATSC (480i, 480p)	HD (1080i, 720p) ATSC (1080i, 720p)										
<table><tr><th>ASPECT</th></tr><tr><td>4:3</td></tr><tr><td>16:9</td></tr><tr><td>V STRETCH</td></tr></table>	ASPECT	4:3	16:9	V STRETCH	<table><tr><th>ASPECT</th></tr><tr><td>4:3</td></tr><tr><td>16:9</td></tr></table>	ASPECT	4:3	16:9	<table><tr><th>ASPECT</th></tr><tr><td>16:9</td></tr><tr><td>HD ZOOM</td></tr></table>	ASPECT	16:9	HD ZOOM
ASPECT												
4:3												
16:9												
V STRETCH												
ASPECT												
4:3												
16:9												
ASPECT												
16:9												
HD ZOOM												

Notes:

- You can also choose the size by pressing the ▲▼ buttons.
- When you change the aspect ratio or signal, reset the picture position to center.
- You can also access the FRONT CONTROL PANEL screen by using the MENU button on the side of the TV instead of the remote control. It appears between INITIAL SETUP and PICTURE ADJUST screen, and it has INPUT, VIDEO STATUS and ASPECT menus. Choose ASPECT by pressing MENU ▼ on the side panel and choose a mode by using the CHANNEL +/- buttons (◀ OPERATE ▶). (AV-30W776 ONLY)
- "SLIM" can only be displayed when the signal is ATSC (480i or 480p). (AV-30W776 ONLY)
- If the television receives a 16:9 signal from your HDMI device, the aspect mode will turn to FULL automatically. If the television receives a 4:3 signal from your HDMI device when you are in FULL aspect mode, it will return to REGULAR aspect mode. If you change the aspect mode after the television changed it to FULL automatically, the television will change to the aspect mode you chose. (AV-30W776 ONLY)

Button Functions

Favorite

The Favorite button allows you to select your favorite channels easily. First, you must register the channels that you like. See how to register below.



Press the FAVORITE button
The favorite channel list will appear.



To select the channel you want to watch



Press the Ok button
It will change to the channel you have selected.

FAVORITE	
▲ PREVIOUS	
101	CBS
102	FOX
D103	PBS2
<	>
D107	HBO
8	ABC
▼ NEXT	

Register the favorite channel



Press the channel number you want to register
The channel program will change.



Press the FAVORITE button for three seconds
The channel will be registered in the favorite channel list.

Notes:

- Both analog and digital channels can be registered. The digital channels have a "D" in front of the channel number.
- The maximum number of channels you can register is 24.
- If you have registered the maximum number of channels, and try to register more channels, the oldest channel you registered will be deleted.
- Sub channels can not be registered.
- The newest channel you registered will appear at the top of the list.
- Regarding digital channels, see pages 62 - 64.

Delete the favorite channel



Press the FAVORITE button
The favorite channel list will appear.



To select the channel you want to delete



To enter



Press the Ok button
The channel was deleted.



Press the FAVORITE button when finished

Note:

- Before pressing the FAVORITE button when you are finished, press the ◀▶ button again, and you can return to the deleted channel.

Button Functions

ML/MTS

MTS technology allows several audio signals to be broadcast in analog at once, giving you a choice in what you wish to hear with a TV program. In addition to mono or stereo sound, an MTS broadcast may also include a second audio program (SAP).



Press the ML/MTS button

By every press of the ML/MTS button, you change the mode

	MTS
ON AIR	STEREO
ON AIR	SAP
	MONO

Notes:

- When you are receiving a digital broadcast, if there are other languages, you can change the language by pressing the ML/MTS button.
- Keep the TV in stereo mode to get the best sound quality. The sound will work in stereo mode even if a certain broadcast is in mono sound only.
- Choose the mono setting to reduce excessive noise on a certain channel or broadcast.
- Selecting SAP will allow you to hear an alternative soundtrack, if one is available.
- MTS unavailable if your television's Input source is in input 1, 2, 3 or 4 mode, as described on page 52.
- ML/MTS will not work when you are using the Digital-In.
- You can also change the mode by pressing the ▲▼ buttons.

Menu

The Menu button allows you to access JVC's onscreen menu system. Press MENU to activate the onscreen menu system.

- See individual topics like "Sound Adjust" for specific information on using menus.

OK

This button confirms your selection when you are in one of the onscreen menus.

Back

This button allows you to go back in the menu to change a selection or correct a mistake.

Button Functions

TV/CATV Slide Switch

Use either the television's own tuner or a cable box to select channels. Set this switch to **TV** to operate the television's built-in tuner. Move the switch to **CATV** to operate a cable box.

Note:

- See page 23 for information on programming your remote for cable box operation.

VCR/DVD Slide Switch

You can control a VCR or DVD player with the buttons on the lower part of the remote control. Move the slide switch to **VCR** or **DVD** to operate.

Notes:

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 24.
- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 25.

VCR Buttons

You can use this remote control to operate the basic functions of your VCR. These functions include: play, record, rewind, fast-forward, stop, pause, channel scan, TV/VCR, power on, and power off.

Move the selector switch to **VCR** to operate.

- The remote is preset with the code 000 to control JVC-brand VCR's. For any other manufacturer's brand VCR, please see the code chart and instructions on page 24.

DVD Buttons

You can also use this remote control to operate the basic functions of your DVD player. These functions include: play, rewind, fast-forward, stop, still/pause, previous/next, tray open/close, power on, and power off.

Move the selector switch to **DVD** to operate.

- The remote is preset with the code 000 to control JVC-brand DVD players. For any other manufacturer's brand DVD player, please see the code chart and instructions on page 25.

Digital Setup

Digital Setup

Use this function when you are receiving a digital broadcast.



Press the MENU button



To DIGITAL SETUP

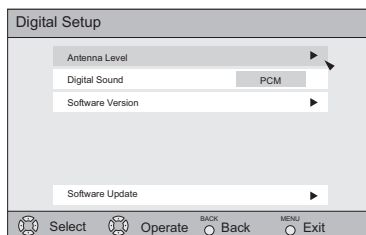


To enter

The onscreen will appear

Notes:

- Software Update will only appear when the SD Card is inserted.
- If you are watching an analog channel, you can still access the digital setup menu at anytime, while you are doing this, the background screen will turn blank. In this case, the tuner will switch to digital, since you are accessing the digital setup menu.



Antenna Level

Confirms the present antenna level.



Press the MENU button



To DIGITAL SETUP



To enter



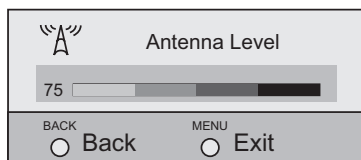
To Antenna Level



To enter

Note:

- If you are watching an analog channel, antenna level will not appear.



Digital Setup

Digital Sound

You can select the optical digital sound output, either PCM or Dolby Digital when your TV is connected to an amplifier that has Dolby Digital decoder. If you select Dolby Digital, you can enjoy listening in 5.1ch sound when watching digital broadcasts.



Press the MENU button



To DIGITAL SETUP



To enter



To Digital Sound



To select PCM or DOLBY DIGITAL



Press the MENU button when finished

Notes:

- If your amplifier does not have Dolby Digital decoder, select PCM. If you don't select PCM, it cannot output the sound from the speakers.
- For connecting an amplifier using the optical output, see page 16.



Manufactured under license from Dolby Laboratories. "Dolby", and the double-D symbol are trademarks of Dolby Laboratories.

Digital Setup

Software Update

At first, insert the SD(Multi-media) card into the memory card slot. This function will appear only when you insert an SD Card.



Press the MENU button



To DIGITAL SETUP



To enter



To Software Update



To enter



Checks the card if it needs an update or not



Press the MENU button when finished

Software Version

You can confirm the Software Version.



Press the MENU button



To DIGITAL SETUP



To enter



To Software Version



To enter



Select close when you are finished confirming your software version



Press the MENU button when finished

Digital Button Functions

Digital CH D/A (Digital/Analog)

The D/A button changes the analog and digital channel. Each time you press the D/A button, you can switch back and forth the analog and digital channels. Digital channels have a "D" in front of the channel number.

Note:

- If the cable card is inserted into the TV, you cannot use the D/A button. You can select a digital channel only.



Press the D/A button

To watch digital channels

For example, to move to channel D23:



Press 2 (Two)



Press 3 (Three)



Press the TUNE button

Sub Channel

The main channel sometimes has minor channels (Sub Channels). By using the Sub button, you can select a sub channel easily.

For example, to move to sub channel 123-45:



Press 1 (One)



Press 2 (Two)



Press 3 (Three)



Press the SUB button



Press 4 (Four)



Press 5 (Five)



Press the TUNE button

Note:

- If there are more than 2 major channels, select the digital channel by using the ▲▼ buttons and then press the Ok button.

Digital Button Functions

Guide

You can view the program from the GUIDE.

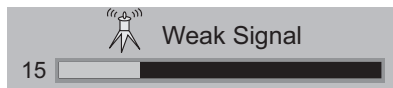
Notes:

- The GUIDE function will only work when you are receiving digital programming only.
- The GUIDE will not show the correct time and date if you have not performed the set clock function on your television. See page 50.

OSD Information

Weak Signal

This OSD warning appears when the digital channel that you have selected is too weak to receive or no signal is being detected for that channel.



Troubleshooting

PROBLEMS	CHECK
There is no power	<ul style="list-style-type: none"> • See if the power cord became unplugged. • Check for a blown fuse or circuit breaker or a power outage.
There is no picture or sound	<ul style="list-style-type: none"> • The antenna could be disconnected. • The input mode could be set improperly. See page 52. • The tuner (Auto Tuner Setup) could be set improperly. See page 30. • The TV station may be having difficulties. Check to see if other stations are working.
Remote control is not operating properly or at all	<ul style="list-style-type: none"> • Check to see that the batteries are still working and properly installed. • Make sure the remote has a clear sight path to the TV. • Check that the TV/CATV switch is in the proper position. • You may be too far from the TV. You must be within 23 feet (7 meters).
You cannot select a certain channel	<ul style="list-style-type: none"> • Make sure the channels have been programmed. See "Channel Summary", page 30. • Check to see if the channel is locked. See "Channel Summary - Lock" page 31.
The power turns off by itself	<ul style="list-style-type: none"> • Make sure the set did not become unplugged. • Perhaps the On/Off Timer is set. See page 51. • Check to see if the Sleep Timer was set. See page 54.
The clock is wrong	<ul style="list-style-type: none"> • The power was interrupted and the clock was not reset. See page 50.
The color quality is poor	<ul style="list-style-type: none"> • Tint and Color may be improperly adjusted. See page 47. • The Video Status mode may be turned to the wrong setting. See page 54.
There are lines across the picture	<ul style="list-style-type: none"> • There could be interference from another electrical appliance, such as a computer, another TV or VCR. Move any such appliances further away from the TV.
The picture is spotted	<ul style="list-style-type: none"> • There could be interference from a high-wattage appliance, like a hairdryer or vacuum, operating nearby. Move the antenna away from the appliance or change to a coaxial cable connection which is less prone to interference.
There are double pictures (ghosts)	<ul style="list-style-type: none"> • A building or passing airplane can reflect the original signal and produce a second, slightly delayed one. Adjust your antenna position.
Picture is snowy (image noise)	<ul style="list-style-type: none"> • Your antenna may be damaged, disconnected or turned. Check the antenna connection. If the antenna is damaged, replace it.
Screen is 40% black	<ul style="list-style-type: none"> • The Closed Caption Text mode is on. Turn it off in the Closed Caption Menu, page 40.
Stereo or bilingual programs can't be heard	<ul style="list-style-type: none"> • Make sure the MTS settings are correct. See "MTS" on page 60.
Static electricity	<ul style="list-style-type: none"> • It is normal to feel static electricity if you brush or touch the screen.
You hear occasional crackling sounds	<ul style="list-style-type: none"> • It is normal for the TV to make crackling sounds when first turned on or off. Unless the sound or picture become abnormal, this is fine.



LIMITED WARRANTY

DISPLAY 1-90

For Canadian model televisions, see separate sheets for Canadian Warranty information.

JVC COMPANY OF AMERICA (JVC) warrants this product and all parts thereof, except as set forth below ONLY TO THE ORIGINAL RETAIL PURCHASER to be FREE FROM DEFECTIVE MATERIALS AND WORKMANSHIP from the date of original purchase for the period shown below. ("The Warranty Period")
PICTURE TUBE is covered for Two(2)years.

Parts	1 YEAR	Labor	90 DAYS
-------	---------------	-------	----------------

THIS LIMITED WARRANTY IS VALID ONLY IN THE FIFTY (50) UNITED STATES, THE DISTRICT OF COLUMBIA AND IN THE COMMONWEALTH OF PUERTO RICO.

WHAT WE WILL DO:

If this product is found to be defective within the warranty period, JVC will repair or replace defective parts with new or rebuilt equivalents at no charge to the original owner. Such repair and replacement services shall be rendered by JVC during normal business hours at JVC authorized service centers. Parts used for replacement are warranted only for the remainder of the Warranty Period. All products may be brought to a JVC authorized service center on a carry-in basis. Color televisions with a screen size of 27" or greater qualify for in-home service. In such cases, a technician will come to your home and either repair the TV there or remove and return it if it cannot be repaired in your home.

WHAT YOU MUST DO FOR WARRANTY SERVICE:

Please do not return your product to the retailer

Instead, return your product to the JVC authorized service center nearest you. If shipping the product to the service center, please be sure to package it carefully, preferably in the original packaging, and include a brief description of the problem(s). Please call 1-800-252-5722 to locate the nearest JVC authorized service center. Service locations can also be obtained from our website <http://www.jvc.com>. If your product qualifies for in-home service, the service representative will require clear access to the product.

If you have any questions concerning your JVC Product, please contact our Customer Care Center at 800-252-5722

WHAT IS NOT COVERED:

This limited warranty provided by JVC does not cover:

1. Products which have been subject to abuse, accident, alteration, modification, tampering, negligence, misuse, faulty installation, lack of reasonable care, or if repaired or serviced by anyone other than a service facility authorized by JVC to render such service, or if affixed to any attachment not provided with the products, or if the model or serial number has been altered, tampered with, defaced or removed;
2. Initial installation, installation and removal from cabinets or mounting systems.
3. Operational adjustments covered in the Owner's Manual, normal maintenance, video and audio head cleaning;
4. Damage that occurs in shipment, due to act of God, and cosmetic damage;
5. Signal reception problems and failures due to line power surge;
6. User Removal Memory Devices/ Video Pick-up Tubes/CCD Image Sensors are covered for 90 days from the date of purchase;
7. Accessories;
8. Batteries (except that Rechargeable Batteries are covered for 90 days from the date of purchase);
9. Products used for commercial purposes, including, but not limited to rental.
10. Loss of data resultant from malfunction of hard drive or other data storage device.

There are no express warranties except as listed above.

THE DURATION OF ANY IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY, IS LIMITED TO THE DURATION OF THE EXPRESS WARRANTY HEREIN.

JVC SHALL NOT BE LIABLE FOR ANY LOSS OF USE OF THE PRODUCT, INCONVENIENCE, OR ANY OTHER DAMAGES, WHETHER DIRECT, INCIDENTAL OR CONSEQUENTIAL (INCLUDING, WITHOUT LIMITATION, DAMAGE TO TAPES, RECORDS OR DISCS) RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. ALL EXPRESS AND IMPLIED WARRANTIES, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE, ARE LIMITED TO THE WARRANTY PERIOD SET FORTH ABOVE.

Some states do not allow the exclusion of incidental or consequential damages or limitations on how long an implied warranty lasts, so these limitations or exclusions may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

JVC COMPANY OF AMERICA
DIVISION OF JVC AMERICAS CORP.

1700 Valley Road
Wayne, NJ 07470

<http://www.jvc.com>

REFURBISHED PRODUCTS CARRY A SEPARATE WARRANTY, THIS WARRANTY DOES NOT APPLY. FOR DETAIL OF REFURBISHED PRODUCT WARRANTY, PLEASE REFER TO THE REFURBISHED PRODUCT WARRANTY INFORMATION PACKAGED WITH EACH REFURBISHED PRODUCT.

For customer use:

Enter below the Model No. and Serial No. which is located either on the rear, bottom or side of the cabinet. Retain this information for future reference.

Model No. : _____

Serial No. : _____

Purchase date : _____

Name of dealer : _____

TO OUR VALUED CUSTOMER —————

THANK YOU FOR PURCHASING THIS JVC PRODUCT.
WE WANT TO HELP YOU ACHIEVE A PERFECT EXPERIENCE.

**NEED HELP ON HOW TO HOOK UP?
NEED ASSISTANCE ON HOW TO OPERATE?
NEED TO LOCATE A JVC SERVICE CENTER?
LIKE TO PURCHASE ACCESSORIES?**

JVC[®] IS HERE TO HELP!
TOLL FREE: 1(800)252-5722
<http://www.jvc.com>

Remember to retain your Bill of Sale for Warranty Service.

————— **Do not attempt to service the product yourself** —————

Caution

To prevent electrical shock, do not open the cabinet.
There are no user serviceable parts inside.
Please refer to qualified service personnel for repairs.

Specifications

MODEL	AV-27S776
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable
Reception Range	VHF 2 to 13, UHF 14 to 69 Sub Mid, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) • Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
Power Source	AC 120V, 60Hz
Power Consumption	190W
Screen Size	27 inch / 68 cm measured diagonally 4:3Ratio
Audio Output	10W + 10W
Speakers	2 1/2 x 5 inch / 6.5 x 13 cm oval x 2
Antenna Terminal	75 ohms (VHF/UHF) (F-type connector)
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms (-4dBs) high impedance
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms
Component Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) PB/PR: 0.7 Vp-p, 75 ohms
Audio Output Jacks (FIX)	FIX 500 mVrms (-4dBs) Low impedance (400 Hz when modulated 100%)
Digital-In	HDMI jack x 1 Note: The Digital-In terminal is not compatible with picture signals of a personal computer
Dimensions (In) WxHxD (cm)	32 3/4 x 23 3/8 x 20 1/2 82.9 x 59.3 x 51.9
Weight (lbs / kg)	94.6 / 43
Accessories	Remote control unit x 1 / AA batteries x 2

Specifications subject to change without notice.

Notes:

- Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQam/download.html

Specifications

MODEL	AV-30W776
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable
Reception Range	VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) • Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
Power Source	AC 120V, 60Hz
Power Consumption	200W
Screen Size	30 inch / 95 cm measured diagonally 4:3 Ratio
Audio Output	10W + 10W
Speakers	2 1/2 x 5 inch / 6.5 x 13 cm oval x 2
Antenna Terminal	75 ohms (VHF/UHF) (F-type connector)
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms (-4dBs) high impedance
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms
Component Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) Pb/Pr: 0.7 Vp-p, 75 ohms
Audio Output Jacks (FIX)	FIX 500 mVrms (-4dBs) Low impedance (400 Hz when modulated 100%)
Digital-In	HDMI jack x 1 Note: The Digital-In terminal is not compatible with picture signals of a personal computer
Dimensions (In) WxHxD (cm)	33 1/8 x 23 1/2 x 21 7/8 83.8 x 59.6 x 55.4
Weight (lbs / kg)	116 / 52.6
Accessories	Remote control unit x 1 / AA batteries x 2

Specifications subject to change without notice.

Notes:

- Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQam/download.html

Specifications

MODEL	AV-32S776
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable
Reception Range	VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) <ul style="list-style-type: none">• Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
Power Source	AC 120V, 60Hz
Power Consumption	210W
Screen Size	32 inch / 80 cm measured diagonally 4:3 Ratio
Audio Output	10W + 10W
Speakers	2 1/2 x 5 inch / 6.5 x 13 cm oval x 2
Antenna Terminal	75 ohms (VHF/UHF) (F-type connector)
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms (-4dBs) high impedance
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms
Component Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) Pb/Pr: 0.7 Vp-p, 75 ohms
Audio Output Jacks (FIX)	FIX 500 mVrms (-4dBs) Low impedance (400 Hz when modulated 100%)
Digital-In	HDMI jack x 1 Note: The Digital-In terminal is not compatible with picture signals of a personal computer
Dimensions (In) WxHxD (cm)	37 x 27 x 22 1/2 93.9 x 68.5 x 57.0
Weight (lbs / kg)	145.5 / 66
Accessories	Remote control unit x 1 / AA batteries x 2

Specifications subject to change without notice.

Notes:

- Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQam/download.html

Specifications

MODEL	AV-32S766
Reception Format	NTSC, BTSC System (Multi-Channel Sound) ATSC Terrestrial, Digital Cable
Reception Range	VHF 2 to 13, UHF 14 to 69 CATV 125 Sub, Mid, Super, Hyper and Ultra bands (181 channel frequency synthesizer system) • Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
Power Source	AC 120V, 60Hz
Power Consumption	210W
Screen Size	32 inch / 80 cm measured diagonally 4:3 Ratio
Audio Output	5W + 5W
Speakers	2 x 4 3/4 inch / 5 x 12 cm oval x 2
Antenna Terminal	75 ohms (VHF/UHF) (F-type connector)
External Input Jacks	Video: 1 Vp-p, 75 ohms Audio: 500mVrms (-4dBs) high impedance
S-Video Input Jack	Y: 1Vp-p positive, 75 ohms (negative sync provided) C: 0.286 Vp-p (burst signal), 75 ohms
Component Input Jacks	Y: 1Vp-p positive, 75 ohms (negative sync provided) Pb/Pr: 0.7 Vp-p, 75 ohms
Audio Output Jacks (FIX)	FIX 500 mVrms (-4dBs) Low impedance (400 Hz when modulated 100%)
Digital-In	HDMI jack x 1 Note: The Digital-In terminal is not compatible with picture signals of a personal computer
Dimensions (In) WxHxD (cm)	34 5/8 x 27 5/8 x 22 1/4 87.7 x 69.9 x 56.5
Weight (lbs / kg)	142 / 64.5
Accessories	Remote control unit x 1 / AA batteries x 2

Specifications subject to change without notice.

Notes:

- Reception of channel A-5 ("95" of the TV set's on-screen cable channel numbers) is not recommended for your TV set.
- The open source software is embedded in this product. For more information, please go to: http://software.jvc.com/opensource/lnx/DP/05_AtscQam/download.html

Notes

Notes

JVC COMPANY OF AMERICA
Division of JVC Americas Corp.
1700 Valley Road
Wayne, New Jersey, 07470



JVC CANADA, INC.
21 Finchdene Square
Scarborough, Ontario
Canada, M1X 1A7

PARTS LIST

CAUTION

- The parts identified by the Δ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

RESISTORS		CAPACITORS	
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

RESISTORS									
F	G	J	K	M	N	R	H	Z	P
$\pm 1\%$	$\pm 2\%$	$\pm 5\%$	$\pm 10\%$	$\pm 20\%$	$\pm 30\%$	+30% -10%	+50% -10%	+80% -20%	+100% -0%

CONTENTS

USING P.W. BOARD & REMOTE CONTROL UNIT	3-2
EXPLODED VIEW PARTS LIST -1 [AV-32S766/Y]	3-3
EXPLODED VIEW - 1 [AV-32S766/Y]	3-3
EXPLODED VIEW PARTS LIST -2 [AV-32S766/Y]	3-4
EXPLODED VIEW -2 [AV-32S766/Y]	3-5
EXPLODED VIEW PARTS LIST -3 [AV-32S776/Y]	3-6
EXPLODED VIEW -3 [AV-32S776/Y]	3-6
EXPLODED VIEW PARTS LIST -4 [AV-32S776/Y]	3-7
EXPLODED VIEW -4 [AV-32S776/Y]	3-8
PRINTED WIRING BOARD PARTS LIST [AV-32S766/Y]	3-9
MAIN P.W. BOARD ASS'Y (SSR-1004A-M2)	3-9
POWER & DEF P.W. BOARD ASS'Y (SSR-2002A-M2)	3-13
CRT SOCKET P.W. BOARD ASS'Y (SSR-3002A-M2)	3-15
SD CARD P.W. BOARD ASS'Y (SSR-8501A-M2)	3-16
DIGITAL SIGNAL P.W. BOARD ASS'Y (SSR0D002A-M2)	3-16
FRONT CONTROL P.W. BOARD ASS'Y (SSR0L002A-M2)	3-20
FRONT SW P.W. BOARD ASS'Y (SSR0L102A-M2)	3-20
ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2201A-M2)	3-20
PRINTED WIRING BOARD PARTS LIST [AV-32S776/Y]	3-21
MAIN P.W. BOARD ASS'Y (SSR-1005A-M2)	3-21
POWER & DEF P.W. BOARD ASS'Y (SSR-2002A-M2)	3-26
CRT SOCKET P.W. BOARD ASS'Y (SSR-3002A-M2)	3-26
SD CARD P.W. BOARD ASS'Y (SSR-8501A-M2)	3-26
DIGITAL SIGNAL P.W. BOARD ASS'Y (SSR0D002A-M2)	3-26
FRONT CONTROL P.W. BOARD ASS'Y (SSR0L002A-M2)	3-26
FRONT SW P.W. BOARD ASS'Y (SSR0L102A-M2)	3-26
ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2201A-M2)	3-26
REMOTE CONTROL UNIT PARTS LIST (RM-C1270G-1H)	3-27
PACKING	3-27
PACKING PARTS LIST	3-27

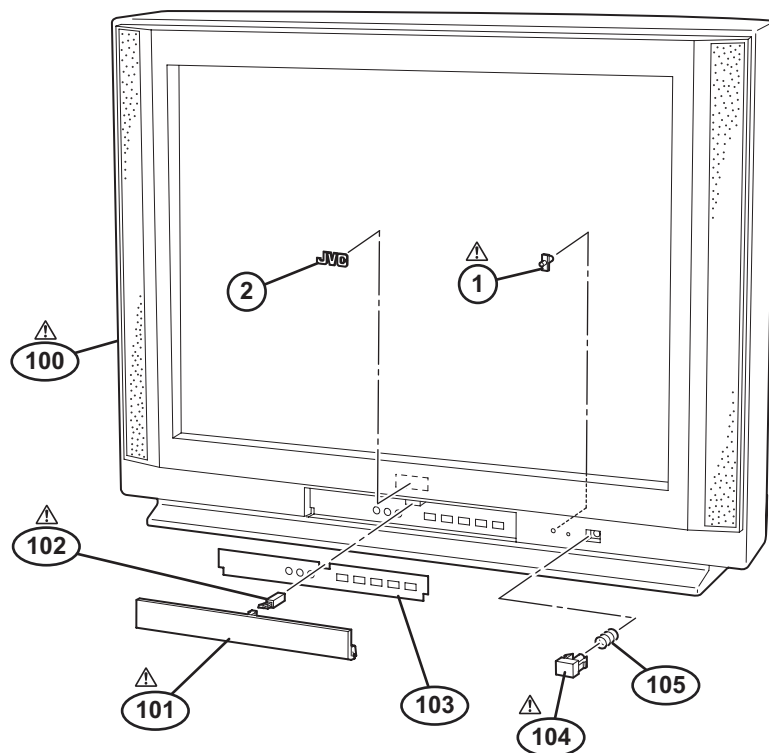
USING P.W. BOARD & REMOTE CONTROL UNIT

P.W.B ASS'Y name	P.W.B ASS'Y No.	
	AV-32S766/Y	AV-32S776/Y
MAIN P.W.B	SSR-1004A-M2	SSR-1005A-M2
POWER & DEF P.W.B	SSR-2002A-M2	←
CRT SOCKET P.W.B	SSR-3002A-M2	←
SD CARD P.W.B	SSR-8501A-M2	←
DIGITAL SIGNAL P.W.B	SSR0D002A-M2	←
FRONT CONTROL P.W.B	SSR0L002A-M2	←
FRONT SW P.W.B	SSR0L102A-M2	←
ATSC TUNER MODULE P.W.B	SSD-2201A-M2	←
REMOTE CONTROL UNIT	RM-C1270G-1H	←

EXPLODED VIEW PARTS LIST -1 [AV-32S766/Y]

△	Ref.No.	Part No.	Part Name	Description	Local
△	1	LC30191-003A-A	REMOCON WINDOW		
	2	CM48006-008-C	JVC MARK		
△	100	LC11048-017A-A	FRONT CABINET ASSY		
△	101	LC20628-003B-A	DOOR		
△	102	CM48229-00A-C	DOOR LATCH		
	103	LC31238-003A-A	OPERATION SHEET		
△	104	LC31237-003B-A	POWER KNOB		
	105	CM36481-002A-A	SPRING		

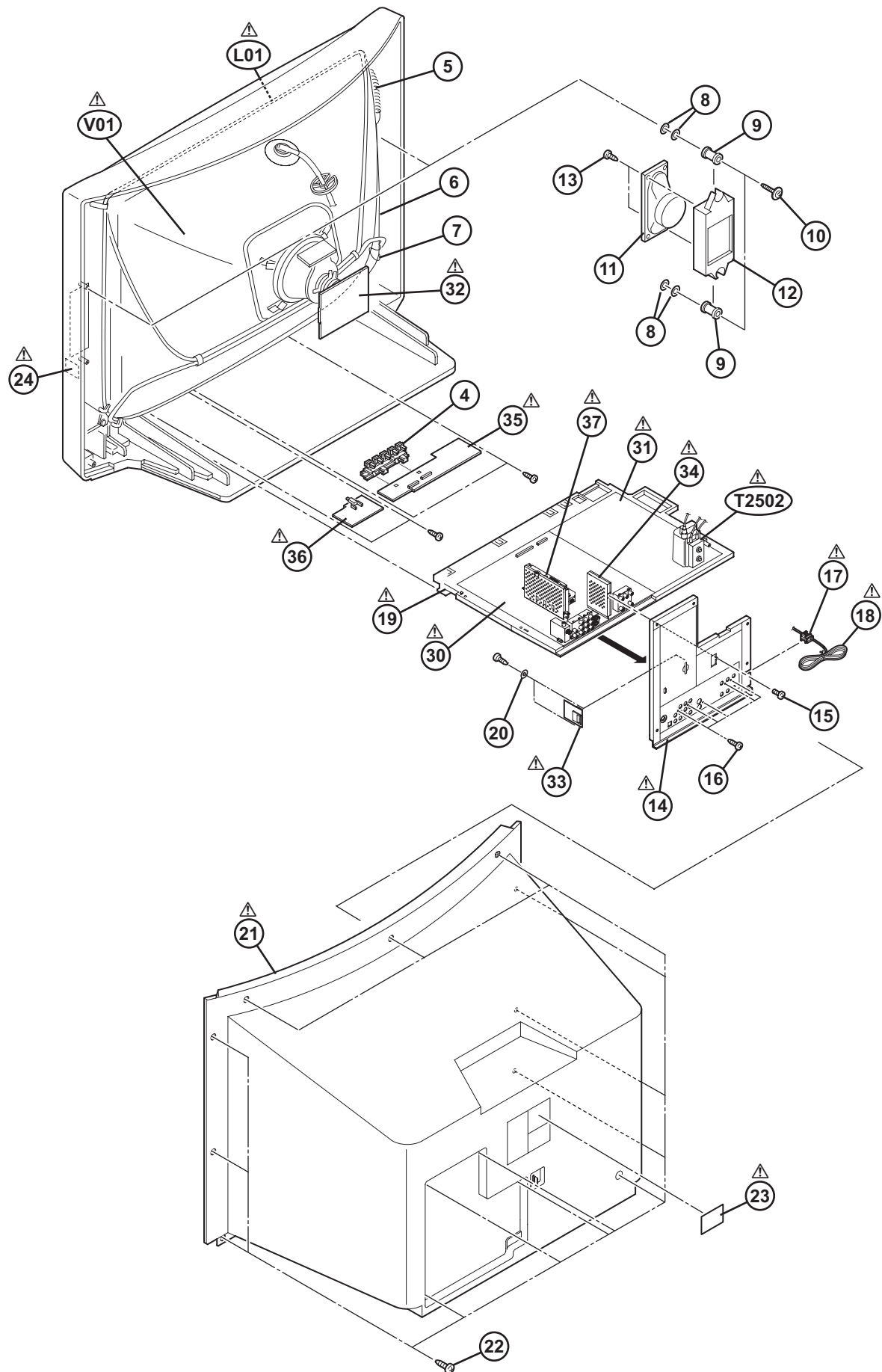
EXPLODED VIEW - 1 [AV-32S766/Y]



EXPLODED VIEW PARTS LIST -2 [AV-32S766/Y]

△	Ref.No.	Part No.	Part Name	Description	Local
△	V01	A80AKS90X33	PICTURE TUBE(ITC)		
△	L01	QQW0116-001	DEG COIL		
△	T2502	QQH0206-001	FB TRANSF		
	4	LC20217-004B-A	CONTROL KNOB		
	5	A48457-4-S	SPRING		
	6	WJY0016-002A-E	E-BRAIDED ASSY		
	7	WJY0013-003A-E	E-BRAIDED ASSY		
	8	CM48221-003-A	WASHER	(x8)	
	9	LC40226-005A-H	SPACER	(x4)	
	10	LC41029-002A-A	TAP SCREW	(x4)	
	11	QAS0101-001	SPEAKER	5cm x 12cm(x2)	
	12	LC20629-001B-A	SPEAKER HOLDER	(x2)	
	13	QYSBSB4012ZA	TAP SCREW	M4 x 12mm(x4)	
△	14	GQ10101-002A-A	AV TERMINAL BOARD		
	15	QYSPSPH3010ZA	SCREW	M3 x 10mm	
	16	QYSBSB3010ZA	TAP SCREW	M3 x 10mm(x5)	
△	17	LC20106-001D-A	POWER CORD CLAMP		
△	18	QMPD200-200-JC	POWER CORD	2m BLACK	
△	19	LC11173-002A-A	CHASSIS BASE		
	20	LC41705-005A-A	WASHER	(x2)	
△	21	LC11339-003A-A	REAR COVER		
	22	QYSBSFG4016ZA	TAP SCREW	M4 x 16mm(x14)	
△	23	GQ30032-001A-A	RATING LABEL		
△	24	GQ30034-001B-A	WARNING LABEL		
△	30	SSR-1004A-M2	MAIN PWB		
△	31	SSR-2002A-M2	POWER & DEF PWB		
△	32	SSR-3002A-M2	CRT SOCKET PWB		
△	33	SSR-8501A-M2	SD CARD PWB		
△	34	SSR0D002A-M2	DIGITAL SIGNAL PWB		
△	35	SSR0L002A-M2	FRONT CONTROL PWB		
△	36	SSR0L102A-M2	FRONT SW PWB		
△	37	SSD-2201A-M2	ATSC TUNER MODULE PWB		

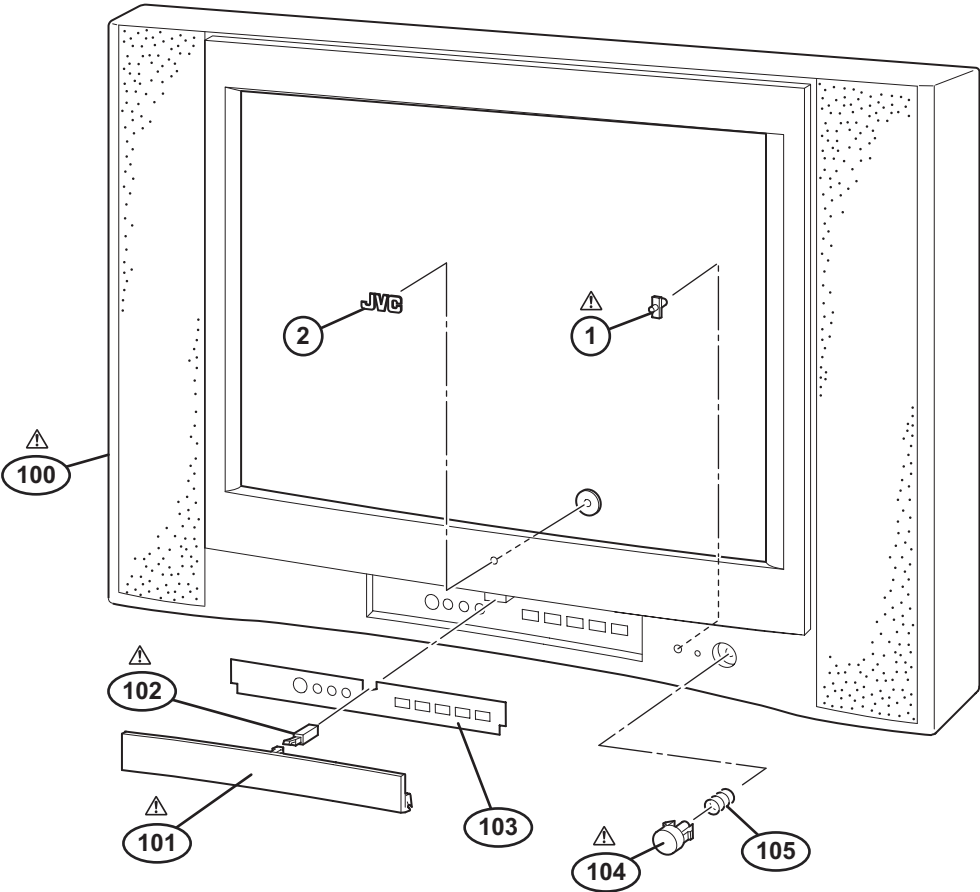
EXPLODED VIEW -2 [AV-32S766/Y]



EXPLODED VIEW PARTS LIST -3 [AV-32S776/Y]

⚠	Ref.No.	Part No.	Part Name	Description	Local
⚠	1	LC32242-001A-A	RC LENS		
	2	LC41540-001G	JVC MARK		
⚠	100	LC11531-008A-A	FRONT CABINET ASSY		
⚠	101	LC21239-001E-A	DOOR		
⚠	102	CM48229-00A-C	DOOR LATCH		
	103	LC32241-002B-A	OPERATION SHEET		
⚠	104	LC32240-001A-A	POWER KNOB		
	105	CM36481-002A-A	SPRING		

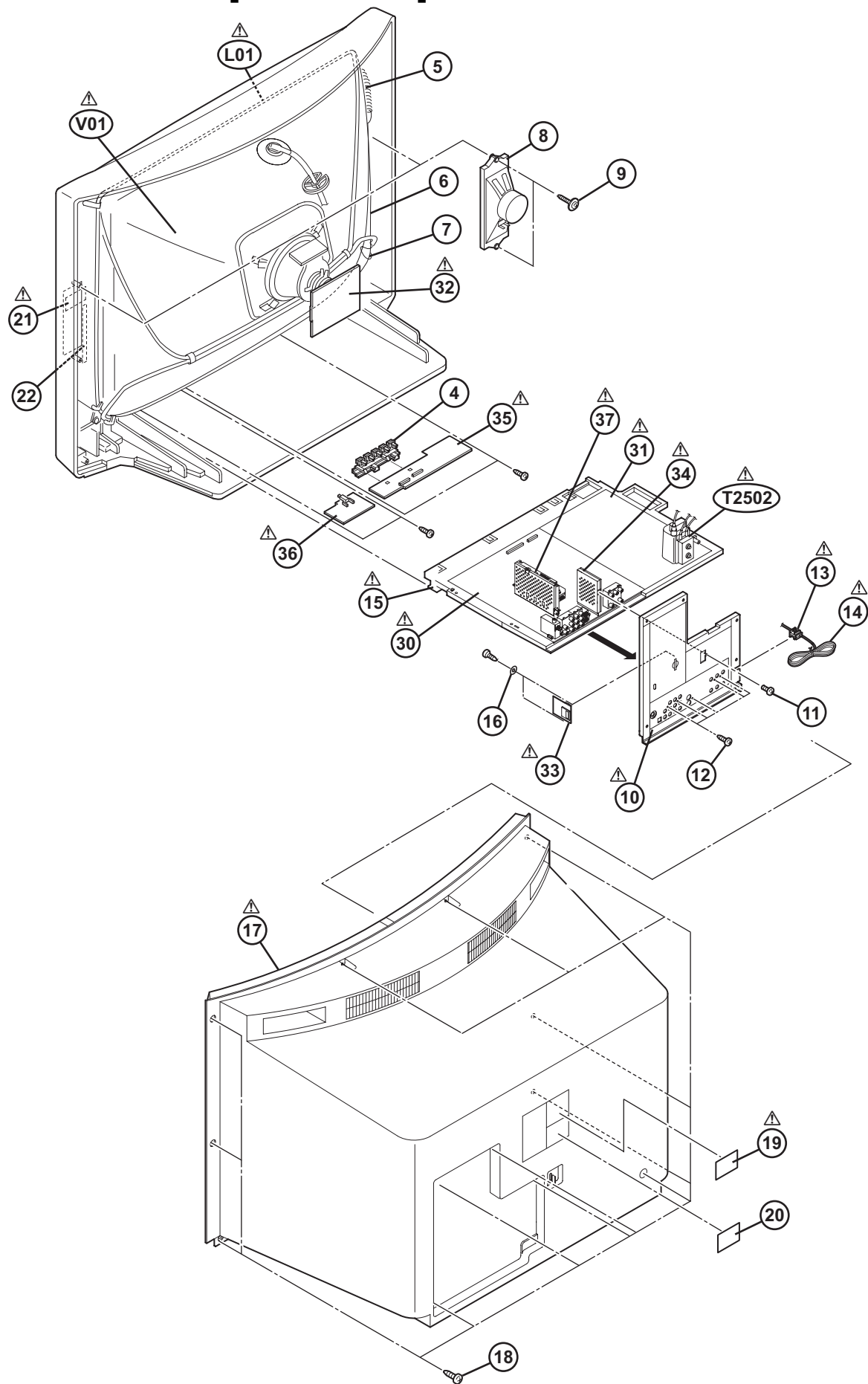
EXPLODED VIEW -3 [AV-32S776/Y]



EXPLODED VIEW PARTS LIST -4 [AV-32S776_Y]

△ Ref.No.	Part No.	Part Name	Description	Local
△ V01	A80AKS90X33	PICTURE TUBE(ITC)		
△ L01	QQW0116-001	DEG COIL		
△ T2502	QQH0206-001	FB TRANSF		
4	LC21260-001B-A	CONTROL KNOB		
5	A48457-4-S	SPRING		
6	WJY0016-002A-E	E-BRAIDED ASSY		
7	WJY0013-003A-E	E-BRAIDED ASSY		
8	QAS0232-001	SPEAKER	6.5cm x 13cm(x2)	
9	LC41029-002A-A	TAP SCREW	(x4)	
△ 10	GQ10101-002A-A	AV TERMINAL BOARD		
11	QYSPSPH3010ZA	SCREW	M3 x 10mm	
12	QYSBSB3010ZA	TAP SCREW	M3 x 10mm(x5)	
△ 13	LC20106-001D-A	POWER CORD CLAMP		
△ 14	QMPD200-200-JC	POWER CORD	2m BLACK	
△ 15	LC11173-002A-A	CHASSIS BASE		
16	LC41705-005A-A	WASHER	(x2)	
△ 17	LC11533-004A-A	REAR COVER		
18	QYSBSFG4016MA	TAP SCREW	M4 x 16mm(x13)	
△ 19	GQ30032-001A-A	RATING LABEL		
20	LC32912-001A-A	BBE LABEL		
△ 21	GQ30034-001B-A	WARNING LABEL		
22	CM35757-009-A	STICK SHEET	(x2)	
△ 30	SSR-1005A-M2	MAIN PWB		
△ 31	SSR-2002A-M2	POWER & DEF PWB		
△ 32	SSR-3002A-M2	CRT SOCKET PWB		
△ 33	SSR-8501A-M2	SD CARD PWB		
△ 34	SSR0D002A-M2	DIGITAL SIGNAL PWB		
△ 35	SSR0L002A-M2	FRONT CONTROL PWB		
△ 36	SSR0L102A-M2	FRONT SW PWB		
△ 37	SSD-2201A-M2	ATSC TUNER MODULE PWB		

EXPLODED VIEW -4 [AV-32S776_Y]



PRINTED WIRING BOARD PARTS LIST [AV-32S766/Y]

MAIN P.W. BOARD ASS'Y (SSR-1004A-M2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC1140	CXA2205Q-X	IC			D1308	MA111-X	SI DIODE		
IC1301	AN15394A	IC			D1401	MA8033/H/-X	Z DIODE		
IC1401	TB1306FG	IC			D1403	MA8030/H/-X	Z DIODE		
IC1402	SN74HC32NS-X	IC (DIGITAL)			D1405	MA111-X	SI DIODE		
IC1403	SN74LVC3G14U-X	IC			D1406	MA111-X	SI DIODE		
IC1501	CXA2089Q-X	IC			D1667	MA111-X	SI DIODE		
IC1661	AN5277	IC			D1668	MA111-X	SI DIODE		
IC1701	MN102H75KPT	IC(MCU)			D1669	MA111-X	SI DIODE		
IC1702	S-80828CLNB-G-W	IC			D1702	MA111-X	SI DIODE		
IC1703	TPS855	PHOTO CONDUCTOR			D1704	MA111-X	SI DIODE		
IC1801	TB1308FG	IC			D1710	MA111-X	SI DIODE		
IC1803	ATE128-32S766Y	IC	(SERVICE)		D1711	MA111-X	SI DIODE		
IC1812	SN74AHC2G08T-X	IC			D1730	MA8068-X	Z DIODE		
IC1902	BA033T	REGULATOR IC			D1731	MA8033-X	Z DIODE		
IC1911	PQ033RD01SZ	IC			D1841	MA8082/M/-X	Z DIODE		
IC1941	PQ1CG21H2FZ	IC			D1842	MA8082/M/-X	Z DIODE		
IC1942	PQ1CY1032Z-W	IC			D1843	MA8051/M/-X	Z DIODE		
IC1943	PQ1CY1032Z-W	IC			D1844	MA8051/M/-X	Z DIODE		
IC1981	PQ1CY1032Z-W	IC			D1851	MA111-X	SI DIODE		
IC1991	PQ120RDA1SZ	IC			D1852	MA111-X	SI DIODE		
IC1993	MM1565AF-X	IC			D1853	MA8100/M/-X	Z DIODE		
IC2101	QNZ0727-001	OPT CONNECTOR			D1854	MA8100/M/-X	Z DIODE		
					D1855	MA111-X	SI DIODE		
Q1103	UN221C-X	DIGI TRANSISTOR			D1901	1SR35-400A-T2	SI DIODE		
Q1104	2SA1530A/QR/-X	TRANSISTOR			D1940	MA111-X	SI DIODE		
Q1301	2SC3928A/QR/-X	TRANSISTOR			D1947	EC31QS04-X	SB DIODE		
Q1302	2SC3928A/QR/-X	TRANSISTOR			D1948	EC31QS04-X	SB DIODE		
Q1304	2SC3928A/QR/-X	TRANSISTOR			D1949	EC31QS04-X	SB DIODE		
Q1305	2SC3928A/QR/-X	TRANSISTOR			D1962	MA3030/H/-X	Z DIODE		
Q1306	2SC3928A/QR/-X	TRANSISTOR			D1964	MA111-X	SI DIODE		
Q1308	2SC3928A/QR/-X	TRANSISTOR			D1965	MA111-X	SI DIODE		
Q1309	2SA1022/BC/-X	TRANSISTOR			D1967	PTZ6.8B-X	Z DIODE		
Q1310	2SA1022/BC/-X	TRANSISTOR			D1968	PTZ3.9B-X	Z DIODE		
Q1311	2SA1022/BC/-X	TRANSISTOR			D1969	PTZ11B-X	Z DIODE		
Q1312	2SA1022/BC/-X	TRANSISTOR			D1981	EC31QS04-X	SB DIODE		
Q1313	2SC3837K/NP/-X	TRANSISTOR			D1983	PTZ3.9B-X	Z DIODE		
Q1314	2SC3837K/NP/-X	TRANSISTOR			D1991	MA111-X	SI DIODE		
Q1315	2SC3837K/NP/-X	TRANSISTOR			D1993	MA111-X	SI DIODE		
Q1316	2SC3928A/QR/-X	TRANSISTOR			D1994	MA8150/M/-X	Z DIODE		
Q1317	2SC3837K/NP/-X	TRANSISTOR			D1995	MA8300/H/-X	Z DIODE		
Q1318	2SC3837K/NP/-X	TRANSISTOR			D2101	MA8100/M/-X	Z DIODE		
Q1319	2SC3837K/NP/-X	TRANSISTOR			D2121	MA8100/M/-X	Z DIODE		
Q1401	2SC3928A/QR/-X	TRANSISTOR			D2201	MA8100/M/-X	Z DIODE		
Q1531	2SC3928A/QR/-X	TRANSISTOR			D2204	MA8100/M/-X	Z DIODE		
Q1668	UN2213-X	DIGI TRANSISTOR			D2205	MA8100/M/-X	Z DIODE		
Q1669	2SC3928A/QR/-X	TRANSISTOR			D2206	MA8100/M/-X	Z DIODE		
Q1671	UN2213-X	DIGI TRANSISTOR			D2209	MA8100/M/-X	Z DIODE		
Q1672	2SC3928A/QR/-X	TRANSISTOR			D2210	MA8100/M/-X	Z DIODE		
Q1673	2SA1530A/QR/-X	TRANSISTOR			D2212	MA8100/M/-X	Z DIODE		
Q1674	2SC3928A/QR/-X	TRANSISTOR			D2213	MA8100/M/-X	Z DIODE		
Q1701	UN2213-X	DIGI TRANSISTOR			D2215	MA8100/M/-X	Z DIODE		
Q1702	2SA1530A/QR/-X	TRANSISTOR			D2216	MA8100/M/-X	Z DIODE		
Q1703	2SA1530A/QR/-X	TRANSISTOR			D2217	MA8100/M/-X	Z DIODE		
Q1704	2SA1530A/QR/-X	TRANSISTOR			D2218	MA8100/M/-X	Z DIODE		
Q1706	2SC3928A/QR/-X	TRANSISTOR			D2219	MA8100/M/-X	Z DIODE		
Q1707	2SC3928A/QR/-X	TRANSISTOR			D2302	MA8100/M/-X	Z DIODE		
Q1710	2SC3928A/QR/-X	TRANSISTOR			D2304	MA8100/M/-X	Z DIODE		
Q1711	2SC3928A/QR/-X	TRANSISTOR			D2305	MA8100/M/-X	Z DIODE		
Q1715	2SC3928A/QR/-X	TRANSISTOR			D2307	MA8100/M/-X	Z DIODE		
Q1716	2SC3928A/QR/-X	TRANSISTOR			D2321	MA8100/M/-X	Z DIODE		
Q1851	2SA1530A/QR/-X	TRANSISTOR			D2322	MA8100/M/-X	Z DIODE		
Q1852	2SA1530A/QR/-X	TRANSISTOR			D2323	MA8100/M/-X	Z DIODE		
Q1853	2SC2785/JH/-T	TRANSISTOR							
Q1871	2SA1022/BC/-X	TRANSISTOR			C1101	QETN0JM-477Z	E CAPACITOR	470uF 6.3V M	
Q1881	2SA1022/BC/-X	TRANSISTOR			C1103	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q1891	2SA1022/BC/-X	TRANSISTOR			C1140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q1915	UN2213-X	DIGI TRANSISTOR			C1141	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q1916	UN2213-X	DIGI TRANSISTOR			C1145	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
Q1961	2SC3928A/QR/-X	TRANSISTOR			C1146	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q1962	2SC3928A/QR/-X	TRANSISTOR			C1147	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
Q1964	2SC3928A/QR/-X	TRANSISTOR			C1148	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
Q1965	UN2213-X	DIGI TRANSISTOR			C1149	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q1981	2SC4682-T	TRANSISTOR			C1150	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
Q1983	UN2213-X	DIGI TRANSISTOR			C1151	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
Q1984	2SC4682-T	TRANSISTOR			C1152	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
Q2257	UN2226-X	DIGI TRANSISTOR			C1153	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
Q2258	UN2226-X	DIGI TRANSISTOR			C1154	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
Q2259	UN2110-X	DIGI TRANSISTOR			C1155	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
					C1156	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D1145	MA8082/M/-X	Z DIODE			C1157	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D1146	MA8082/M/-X	Z DIODE			C1158	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D1301	MA8100/M/-X	Z DIODE			C1159	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
D1302	MA111-X	SI DIODE			C1160	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
D1303	MA111-X	SI DIODE			C1161	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D1304	MA111-X	SI DIODE			C1162	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
					C1163	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
					C1164	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1165	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1539	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C1166	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1644	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1167	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1667	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1168	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1668	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1169	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1669	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1170	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1670	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1171	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1671	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1172	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1672	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1301	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1673	QETN1HM-477Z	E CAPACITOR	470uF 50V M
C1302	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	C1674	QETM1HM-108	E CAPACITOR	1000uF 50V M
C1303	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	C1675	QFV21HJ-124Z	MF CAPACITOR	0.12uF 50V J
C1304	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	C1676	QFV21HJ-124Z	MF CAPACITOR	0.12uF 50V J
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1677	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C1306	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1678	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C1307	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C1679	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1308	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C1680	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1309	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C1696	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1310	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C1697	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C1311	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1312	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	C1708	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C1313	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1709	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1314	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1710	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1315	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1316	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1712	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1317	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1713	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1318	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1715	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1319	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1717	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1320	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1718	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1321	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1719	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1322	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1720	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1323	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1721	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1324	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C1722	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1325	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1723	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C1327	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1724	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1328	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1725	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C1329	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	C1726	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C1330	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1727	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C1331	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1728	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1332	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C1729	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1333	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1730	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1334	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1731	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1335	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1732	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1336	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1734	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C1337	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C1739	NDC31HJ-391X	C CAPACITOR	390pF 50V J
C1338	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C1740	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1339	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C1743	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1401	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1744	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C1402	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1745	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C1405	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1754	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C1406	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1755	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1407	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1756	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C1408	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1757	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1409	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1758	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1412	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1759	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1413	NCB31AK-105X	C CAPACITOR	1uF 10V K	C1760	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1414	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1761	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1415	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1801	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1416	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1802	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1417	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1803	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1418	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1420	NCB31HK-471X	C CAPACITOR	470pF 50V K	C1805	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1423	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1424	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1425	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	C1808	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1428	NCB31HK-122X	C CAPACITOR	1200pF 50V K	C1809	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1429	NCB31HK-392X	C CAPACITOR	3900pF 50V K	C1810	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1811	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1431	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1432	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1813	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1433	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1434	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1435	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1816	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C1436	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1817	NCB31CK-105X	C CAPACITOR	1uF 16V K
C1439	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1818	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1440	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1819	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1441	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1820	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1444	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1445	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1822	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1446	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1824	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1447	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1825	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1448	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1826	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1449	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1827	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1450	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1828	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1460	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1829	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1461	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1830	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1464	NDC31HJ-100X	C CAPACITOR	10pF 50V J	C1831	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1510	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	C1832	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1519	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1833	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1834	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1532	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1835	NCB21CK-105X	C CAPACITOR	1uF 16V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1836	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1209	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1838	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1280	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1839	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1281	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1840	NCB21CK-105X	C CAPACITOR	1uF 16V K	R1282	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1851	QETN1AM-227Z	E CAPACITOR	220uF 10V M	R1283	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1861	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R1284	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1871	QETN1HM-336Z	E CAPACITOR	33uF 50V M	R1287	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1881	QETN1HM-336Z	E CAPACITOR	33uF 50V M	R1288	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1891	QETN1HM-336Z	E CAPACITOR	33uF 50V M	R1289	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1907	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1292	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1908	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1296	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1940	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1297	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1941	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R1301	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
C1942	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R1302	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1943	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1303	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1944	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R1304	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
C1945	QEZ0256-128	E CAPACITOR	1200uF 10V M	R1305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1946	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1306	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
C1947	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1948	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R1308	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1949	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1309	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1950	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1310	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1951	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R1311	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1952	QEZ0256-128	E CAPACITOR	1200uF 10V M	R1312	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C1953	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	R1313	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C1954	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1314	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
C1955	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1315	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1960	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1961	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1317	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C1972	QEZ0256-128	E CAPACITOR	1200uF 10V M	R1318	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C1975	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1319	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1979	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R1320	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C1981	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1321	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1984	QETN1VM-108Z	E CAPACITOR	1000uF 35V M	R1322	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1985	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1323	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1991	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R1324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1992	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R1325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1994	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1326	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1995	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1327	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1996	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1328	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C2101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1332	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C2102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C2103	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C2104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1338	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C2105	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1339	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C2106	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1340	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C2123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1341	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C2124	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1342	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C2126	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1343	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C2127	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1344	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C2128	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1345	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C2144	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1346	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C2145	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1347	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
C2146	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1348	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
C2258	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1349	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
C2259	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R1350	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C2260	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1351	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
CB1743	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R1352	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
CB1744	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R1353	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
				R1354	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1355	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1356	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1103	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1357	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1104	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1358	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1105	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1359	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1360	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1107	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1361	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1108	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1362	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1363	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1364	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1140	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1365	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1141	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1366	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1367	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D
R1143	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1368	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1144	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1369	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
R1145	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1370	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1147	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	R1371	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1149	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1372	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1150	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1401	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J
R1151	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1402	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J
R1152	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1403	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1157	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1404	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1158	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1406	QRK126J-471X	UNF C RESISTOR	470Ω 1/2W J
R1159	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1407	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1160	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1408	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1201	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1409	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R1202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1203	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R1411	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1412	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1206	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1413	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1414	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1416	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1417	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1418	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1419	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R1707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1708	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1422	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1710	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1426	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1712	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1428	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1429	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1430	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R1715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1441	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1445	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1447	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R1718	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1451	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1719	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1452	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1720	NQR0489-002X	FERRITE BEADS	
R1453	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1721	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1454	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1722	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1471	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1723	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1472	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1724	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1473	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1725	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1476	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1726	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1477	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1727	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1478	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1479	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1730	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1480	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1731	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1481	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1733	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1514	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1520	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1736	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1521	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1737	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1738	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1740	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1525	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1742	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1526	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1527	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1528	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1748	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1530	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1751	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R1533	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1752	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R1534	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1753	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1535	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1536	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1756	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1537	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1758	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1538	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1760	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1539	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1761	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1547	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1762	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1763	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1549	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1764	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1560	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R1765	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1766	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1563	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1577	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1769	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1578	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1770	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1579	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1583	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1772	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J
R1584	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1773	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1774	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1611	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R1775	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1612	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R1776	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1777	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1778	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1615	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R1779	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1616	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R1780	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1618	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1781	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1644	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1782	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1646	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1784	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1786	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1665	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1787	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1666	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1788	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1667	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1789	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R1668	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1790	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R1669	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1791	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R1670	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1795	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1671	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	R1796	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
R1672	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	R1798	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1673	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J	R1801	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1674	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J	R1802	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1680	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	R1803	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1681	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1804	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1805	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1691	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1810	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1695	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1815	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1696	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1816	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1697	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1817	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1698	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	R1841	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1842	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
R1844	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R2304	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1845	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R2305	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1846	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J	R2306	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R1847	NRSA63J-563X	MG RESISTOR	56kΩ	1/16W J	R2307	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1851	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R2308	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R1852	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R2309	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1853	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R2321	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1854	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	R2322	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R1856	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R2323	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1857	NRSA63J-273X	MG RESISTOR	27kΩ	1/16W J	R2324	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1858	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	R2325	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R1859	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	R2326	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1860	NRSA63J-472X	MG RESISTOR	4.7kΩ	1/16W J	R2327	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1863	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J	R2328	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J
R1864	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R2329	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1865	NRSA63J-221X	MG RESISTOR	220Ω	1/16W J	R2341	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1872	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	R2343	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1875	NRSA63J-100X	MG RESISTOR	10Ω	1/16W J	R2344	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1876	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R2346	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1877	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	R2347	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1878	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	R2349	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1882	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	RB1717	NRSA63J-103X	MG RESISTOR	10kΩ	1/16W J
R1885	NRSA63J-100X	MG RESISTOR	10Ω	1/16W J	RB1732	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J
R1886	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	RB1733	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J
R1887	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	RB1763	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J
R1888	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	RB1764	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J
R1892	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	RB1949	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J
R1895	NRSA63J-100X	MG RESISTOR	10Ω	1/16W J	L1401	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1896	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L1402	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1897	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L1403	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1898	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	L1711	NQL085J-1R0X	CHIP P COIL	1uH	J
R1901	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	L1712	NQL085J-3R3X	COIL	3.3uH	J
R1929	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L1713	NQL085J-3R3X	COIL	3.3uH	J
R1930	NRSA63J-123X	MG RESISTOR	12kΩ	1/16W J	L1714	NQL085J-3R3X	COIL	3.3uH	J
R1932	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L1801	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1942	NRSA63D-122X	MG RESISTOR	1.2kΩ	1/16W D	L1802	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1945	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L1941	QQR1401-001	CHOCOIL		
R1949	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J	L1942	QQR1401-001	CHOCOIL		
R1950	NRSA63D-822X	MG RESISTOR	8.2kΩ	1/16W D	L1943	QQL26AK-330Z	CHOCOIL	33uH	K
△R1951	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J	L1944	QQL26AK-330Z	CHOCOIL	33uH	K
R1952	NRSA63J-331X	MG RESISTOR	330Ω	1/16W J	L1945	QQL26AK-220Z	CHOCOIL	22uH	K
△R1957	NRSA63J-682X	MG RESISTOR	6.8kΩ	1/16W J	L1946	QQL26AK-220Z	CHOCOIL	22uH	K
R1958	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D	L1947	QQR1401-001	CHOCOIL		
R1959	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	L1950	QQL26AK-470Z	CHOCOIL	47uH	K
R1961	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L1951	QQL26AK-470Z	CHOCOIL	47uH	K
R1962	NRSA63J-562X	MG RESISTOR	5.6kΩ	1/16W J	L1952	QQL26AK-470Z	CHOCOIL	47uH	K
R1963	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	L1956	QQL26AK-470Z	CHOCOIL	47uH	K
R1964	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J	L1982	QQL26AK-470Z	CHOCOIL	47uH	K
R1965	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	L1983	QQR1401-001	CHOCOIL		
R1966	NRSA63J-822X	MG RESISTOR	8.2kΩ	1/16W J	L1984	QQL26AK-100Z	CHOCOIL	10uH	K
R1967	NRSA63J-122X	MG RESISTOR	1.2kΩ	1/16W J	CN1001	QGB1506L1-16	CONNECTOR	B-B	(1-16)
R1968	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	CN1002	QGB1506L1-16	CONNECTOR	B-B	(1-16)
R1969	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	CN1003	QGB1506L1-16	CONNECTOR	B-B	(1-16)
R1971	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	CN1004	QGB1509J1-55	CONNECTOR	B-B	(1-55)
R1981	QRK126J-181X	UNF C RESISTOR	180Ω	1/2W J	CN5001	QGB2501J1-11	CONNECTOR	B-B	(1-11)
R1982	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D	CN5002	QGB2501J1-10	CONNECTOR	B-B	(1-10)
R1983	NRSA63D-302X	MG RESISTOR	3kΩ	1/16W D	CN6001	QGB2501J1-09	CONNECTOR	B-B	(1-9)
R1984	NRSA63D-153X	MG RESISTOR	15kΩ	1/16W D	J2101	QNN0628-001	PIN JACK	V/L/R	IN
R1985	NRSA63D-153X	MG RESISTOR	15kΩ	1/16W D	J2111	QND0104-001	S JACK	S	IN
△R1986	QRK126J-331X	UNF C RESISTOR	330Ω	1/2W J	J2121	QNN0739-001	PIN JACK	COMPONENT	IN
R1987	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J	J2231	QNN0738-001	PIN JACK	AUDIO	OUT
R1988	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J	K1703	NRSA02J-0R0X	MG RESISTOR	0Ω	1/10W J
R1990	QRT039J-R68	MF RESISTOR	0.68Ω	3W J	K1943	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1991	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J	K1944	QRN143J-0R0X	C RESISTOR	0Ω	1/4W J
R1993	NRSA63J-182X	MG RESISTOR	1.8kΩ	1/16W J	SL1701	NAX0137-001X	C OSCILLATOR	4.000MHz	
R2101	NRSA63J-101X	MG RESISTOR	100Ω	1/16W J	△TU1101	QAU0448-001	TUNER		
R2102	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	X1401	NAX0795-001X	C RESONATOR		
R2103	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J	X1801	NAX0787-001X	CRISTAL		
R2104	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R2105	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R2106	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R2122	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R2123	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R2126	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R2127	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R2145	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R2146	NRSA63J-224X	MG RESISTOR	220kΩ	1/16W J					
R2147	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R2148	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R2256	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J					
R2257	NRSA63J-223X	MG RESISTOR	22kΩ	1/16W J					
R2266	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R2267	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R2271	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R2272	NRSA63J-471X	MG RESISTOR	470Ω	1/16W J					
R2279	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J					
R2280	NRSA63J-102X	MG RESISTOR	1kΩ	1/16W J					
R2301	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					
R2302	NRSA63J-750X	MG RESISTOR	75Ω	1/16W J					
R2303	NRSA63J-0R0X	MG RESISTOR	0Ω	1/16W J					

POWER & DEF P.W. BOARD ASS'Y (SSR-2002A-M2)

△Ref No.	Part No.	Part Name	Description	Local
IC2422	LA78041	IC		
IC2911	STR-X6737M-F2	IC		
IC2921	SE140N	IC		
IC2922	L7805CP	IC		
Q2401	KTC3199/YG/-T	TRANSISTOR		
Q2402	KTC3199/YG/-T	TRANSISTOR		
Q2501	BSN304-T	MOS FET		
△Q2503	2SC5905-RL	POW TRANSISTOR		H.OUT
Q2521	KTC3199/YG/-T	TRANSISTOR		
Q2531	RDN080N25	POWER MOS FET		
Q2532	2SC1959/Y/-T	TRANSISTOR		

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
Q2533	2SA562TM/Y/-T	TRANSISTOR		C2524	QCS32HJ-470Z	C CAPACITOR	47pF 500V J
Q2911	KTC3199/YG/-T	TRANSISTOR		C2525	QFN31HJ-682Z	M CAPACITOR	6800pF 50V J
Q2927	2SA965/OY/-T	TRANSISTOR		C2526	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q2928	KTC3199/YG/-T	TRANSISTOR		C2533	QCS32HJ-561	C CAPACITOR	560pF 500V J
Q2950	KTC3199/YG/-T	TRANSISTOR		C2534	QFN32DK-222Z	M CAPACITOR	2200pF 200V K
Q2952	KTC3199/YG/-T	TRANSISTOR		C2536	QFN32DK-472Z	M CAPACITOR	4700pF 200V K
Q2953	KTC3199/YG/-T	TRANSISTOR		C2591	QEZ0203-107	E CAPACITOR	100uF 160V M
Q2954	KTC3199/YG/-T	TRANSISTOR		C2801	QETM1VM-228	E CAPACITOR	2200uF 35V M
Q2955	KTC3199/YG/-T	TRANSISTOR		C2803	QETN2EM-106Z	E CAPACITOR	10uF 250V M
Q2961	KTC3199/YG/-T	TRANSISTOR		C2811	QETN1JM-107Z	E CAPACITOR	100uF 63V M
Q2970	KTC3199/YG/-T	TRANSISTOR		C2901	QEZ0572-687	E CAPACITOR	680uF 200V M
Q2971	2SA1208/ST/Z1-T	TRANSISTOR		△C2902	QEZ0572-687	E CAPACITOR	680uF 200V M
Q2991	2SC3311A/QR/-T	TRANSISTOR		C2903	QCS32HJ-221Z	C CAPACITOR	220pF 500V J
D2201	1SR35-400A-T2	SI DIODE		△C2904	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
D2404	MTZJ6.8A-T2	Z DIODE		△C2905	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
D2405	1SS133-T2	SI DIODE		△C2906	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
D2406	MTZJ3.3A-T2	Z DIODE		△C2908	QCZ9054-102	C CAPACITOR	1000pF AC250V Z
D2408	1SS133-T2	SI DIODE		C2912	QCZ0340-332	C CAPACITOR	3300pF 2kV K
D2409	1N4003SG-T2	SI DIODE		C2913	QETN1HM-105Z	E CAPACITOR	1uF 50V M
D2410	MTZJ75-T2	Z DIODE		C2914	QETN1HM-226Z	E CAPACITOR	22uF 50V M
D2502	1SS133-T2	SI DIODE		C2916	QCS31HJ-331Z	C CAPACITOR	330pF 50V J
D2504	RG2A-LFC4	SI DIODE		C2917	QFN31HJ-332Z	M CAPACITOR	3300pF 50V J
D2506	FMV-3FU-F1	SI DIODE		C2918	QFVF1HJ-104Z	MF CAPACITOR	0.1uF 50V J
D2521	MTZJ12C-T2	Z DIODE		C2919	QFP32GJ-103	PP CAPACITOR	0.01uF 400V J
D2522	1SS244-T2	SI DIODE		C2920	QFLC1HJ-104Z	M CAPACITOR	0.1uF 50V J
D2531	RGF10J-04TS-T3	SI DIODE		C2927	QCZ0340-152	C CAPACITOR	1500pF 2kV K
D2561	MA4068NZ1/-T2	Z DIODE		C2930	QCS31HJ-181Z	C CAPACITOR	180pF 50V J
D2801	RGF10J-04TS-T3	SI DIODE		C2931	QEZ0203-227	E CAPACITOR	220uF 160V M
D2803	RH1S-LFA1	SI DIODE		C2932	QETM1EM-228	E CAPACITOR	2200uF 25V M
D2812	1SR124-400A-T2	SI DIODE		C2934	QETM1VM-228	E CAPACITOR	2200uF 35V M
△D2901	RBV-606	BRIDGE DIODE		C2935	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
△D2911	RGF10J-04TS-T3	SI DIODE		C2938	QETN1VM-108Z	E CAPACITOR	1000uF 35V M
D2912	RGF10J-5025-T3	SI DIODE		C2948	QETN1EM-227Z	E CAPACITOR	220uF 25V M
D2913	1SS133-T2	SI DIODE		C2951	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D2914	1SS133-T2	SI DIODE		C2954	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
D2915	SARS01-T2	SI DIODE		C2959	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M
D2917	MTZJ33B-T2	Z DIODE		C2971	QETN1CM-107Z	E CAPACITOR	100uF 16V M
D2920	1SS133-T2	SI DIODE		C2972	QETN1HM-476Z	E CAPACITOR	47uF 50V M
D2921	MTZJ5.6B-T2	Z DIODE		C2973	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D2931	RU4AM-F1	SI DIODE		△C2982	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
D2932	FMX-G12S	SI DIODE		△C2983	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
D2935	RU3YX-LFC4	SI DIODE		△C2985	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
D2936	FMX-G12S	SI DIODE		C2991	QETN1AM-107Z	E CAPACITOR	100uF 10V M
D2943	MTZJ12A-T2	Z DIODE		C2992	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D2956	1SS133-T2	SI DIODE		△C2993	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2957	1SS133-T2	SI DIODE		△C2994	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2958	MTZJ6.8B-T2	Z DIODE		△C2995	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2959	1SS133-T2	SI DIODE		△C2997	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2970	MTZJ3.3A-T2	Z DIODE		△C2998	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2972	MTZJ15B-T2	Z DIODE		△C2999	QCZ9078-222	C CAPACITOR	2200pF AC250V M
D2973	1SS133-T2	SI DIODE		R2201	QRA14CF-2703Y	CMF RESISTOR	270kΩ 1/4W F
D2978	AU01Z-T2	FR DIODE		R2202	QRA14CF-3303Y	CMF RESISTOR	330kΩ 1/4W F
D2980	1SR35-400A-T2	SI DIODE		R2203	QRA14CF-3303Y	CMF RESISTOR	330kΩ 1/4W F
D2989	MTZJ6.8B-T2	Z DIODE		R2204	QRA14CF-2703Y	CMF RESISTOR	270kΩ 1/4W F
D2990	MTZJ15B-T2	Z DIODE		R2401	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
D2991	1SS133-T2	SI DIODE		R2403	QRE141J-683Y	C RESISTOR	68kΩ 1/4W J
D2992	MTZJ5.1B-T2	Z DIODE		R2404	QRE141J-393Y	C RESISTOR	39kΩ 1/4W J
D2993	1SS133-T2	SI DIODE		R2406	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
D2994	1SS133-T2	SI DIODE		R2407	QRT029J-1R0	MF RESISTOR	1Ω 2W J
C2201	QFVF1HJ-334Z	MF CAPACITOR	0.33uF 50V J	R2408	QRE121J-120Y	C RESISTOR	12Ω 1/2W J
C2402	QFN32AK-102Z	M CAPACITOR	1000pF 100V K	R2409	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C2403	QETN1VM-107Z	E CAPACITOR	100uF 35V M	R2410	QRE141J-681Y	C RESISTOR	680Ω 1/4W J
C2404	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R2411	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C2405	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	R2412	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
C2406	QETN1EM-228Z	E CAPACITOR	2200uF 25V M	R2413	QRE141J-104Y	C RESISTOR	100kΩ 1/4W J
C2407	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R2414	QRL029J-221	OMF RESISTOR	220Ω 2W J
C2408	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R2415	QRE141J-154Y	C RESISTOR	150kΩ 1/4W J
C2409	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R2416	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
C2410	QFLC2AK-563Z	M CAPACITOR	0.056uF 100V K	R2418	QRE141J-222Y	C RESISTOR	2.2kΩ 1/4W J
C2411	QCB31HK-222Z	C CAPACITOR	2200pF 50V K	R2420	QRE141J-101Y	C RESISTOR	100Ω 1/4W J
C2412	QFLC1HJ-183Z	M CAPACITOR	0.018uF 50V J	R2421	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
C2420	QCS32HJ-100Z	C CAPACITOR	10pF 500V J	R2422	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J
C2502	QCB32HK-331Z	C CAPACITOR	330pF 500V K	R2429	QRE141J-272Y	C RESISTOR	2.7kΩ 1/4W J
C2503	QEM61HK-106Z	E CAPACITOR	10uF 50V K	R2436	QRZ0230-391X	UNF C RESISTOR	390Ω 1/4W J
C2506	QFZ0122-652	MPP CAPACITOR	6500pF 1.8kV H	R2502	QRE141J-471Y	C RESISTOR	470Ω 1/4W J
C2507	QFZ0122-103	MPP CAPACITOR	0.01uF 1.8kV H	R2503	QRE121J-123Y	C RESISTOR	12kΩ 1/2W J
C2508	QFP32JJ-153	PP CAPACITOR	0.015uF 630V J	R2504	QRE141J-152Y	C RESISTOR	1.5kΩ 1/4W J
C2509	QFZ0197-104	MPP CAPACITOR	0.1uF 250V J	R2505	QRL039J-152	OMF RESISTOR	1.5kΩ 3W J
C2510	QFZ0197-154	MPP CAPACITOR	0.15uF 250V J	R2506	QRL039J-152	OMF RESISTOR	1.5kΩ 3W J
C2511	QFZ0128-204	MPP CAPACITOR	0.2uF DC400V H	R2507	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
C2512	QFZ0128-184	MPP CAPACITOR	0.18uF DC400V H	R2509	QRE121J-220Y	C RESISTOR	22Ω 1/2W J
C2513	QEZ0414-226	BP E CAPACITOR	22uF 50V M	R2512	QRL029J-821	OMF RESISTOR	820Ω 2W J
C2514	QCS32HJ-561	C CAPACITOR	560pF 500V J	R2513	QRE121J-333Y	C RESISTOR	33kΩ 1/2W J
C2515	QFV21HJ-224	MF CAPACITOR	0.22uF 50V J	R2514	QRE121J-102Y	C RESISTOR	1kΩ 1/2W J
C2516	QCZ0340-102	C CAPACITOR	1000pF 2kV K	R2515	QRE121J-273Y	C RESISTOR	27kΩ 1/2W J
C2521	QCZ0340-331	C CAPACITOR	330pF 2kV K	R2521	QRE141J-103Y	C RESISTOR	10kΩ 1/4W J
C2522	QRE141J-0R0Y	C RESISTOR	0Ω 1/4W J	R2522	QRE141J-563Y	C RESISTOR	56kΩ 1/4W J
C2523	QFN32AJ-682Z	M CAPACITOR	6800pF 100V J	R2523	QRE141J-822Y	C RESISTOR	8.2kΩ 1/4W J
				R2524	QRE141J-682Y	C RESISTOR	6.8kΩ 1/4W J

CRT SOCKET P.W. BOARD ASS'Y (SSR-3002A-M2)

△Ref No.	Part No.	Part Name	Description Local
R3009	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K
R3010	NRSA63D-682X	MG RESISTOR	6.8kΩ 1/16W D
R3011	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D
R3012	NRSA63D-333X	MG RESISTOR	33kΩ 1/16W D
R3028	QRC122K-102	COMP RESISTOR	1kΩ 1/2W K
R3029	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J
R3030	QRL029J-823	OMF RESISTOR	82kΩ 2W J
R3052	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R3053	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R3054	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
R3055	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
R3101	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R3103	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3104	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R3107	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3108	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3201	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R3202	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R3203	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3204	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R3207	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3208	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3301	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R3302	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R3303	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3304	QRL039J-473	OMF RESISTOR	47kΩ 3W J
R3307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R3308	QRC121K-561Z	COMP RESISTOR	560Ω 1/2W K
R3701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3702	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J
R3703	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R3704	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R3705	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J
R3706	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R3707	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
△R3710	QRJ146J-182X	UNF C RESISTOR	1.8kΩ 1/4W J
R3711	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R3712	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
△R3713	QRJ146J-182X	UNF C RESISTOR	1.8kΩ 1/4W J
△R3714	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J
△R3715	QRJ146J-470X	UNF C RESISTOR	47Ω 1/4W J
R3716	QRG01GJ-150	OMF RESISTOR	15Ω 1W J
R3719	QRG01GJ-180	OMF RESISTOR	18Ω 1W J
R3720	QRL039J-330	OMF RESISTOR	33Ω 3W J
R3721	QRL039J-330	OMF RESISTOR	33Ω 3W J
R3722	QRL039J-330	OMF RESISTOR	33Ω 3W J
R3724	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R3727	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R3728	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J

L3001	QQL26AJ-102Z	PEAKING COIL	1mH J
L3002	QQL26AJ-102Z	PEAKING COIL	1mH J
L3003	QQL26AJ-102Z	PEAKING COIL	1mH J
L3004	QQL26AJ-102Z	PEAKING COIL	1mH J
L3101	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L3201	QQL244K-5R6Z	PEAKING COIL	5.6uH K
L3301	QQL244K-5R6Z	PEAKING COIL	5.6uH K

CN300A	QJB003-043414-E	SIN ID C-B WIRE	
CN300E	QJB003-084023-E	SIN ID C-B WIRE	
CN300J	QJB003-064011-E	SIN ID C-B WIRE	
CN30E2	QUB130-46A6AS-E	SIN TWIST WIRE	
K3701	QQR1114-001Z	FERRITE BEADS	
K3702	QQR0582-001Z	FERRITE BEADS	
SG3101	QAF0056-501Z	SURGE ABSORBER	500V M
SG3201	QAF0056-501Z	SURGE ABSORBER	500V M
SG3301	QAF0056-501Z	SURGE ABSORBER	500V M
△SK3001	QNZ0536-001	CRT SOCKET	

SD CARD P.W. BOARD ASS'Y (SSR-8501A-M2)

△Ref No.	Part No.	Part Name	Description Local
IC1001	W81386D-G	IC	
C1001	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C1002	NCB31EK-103X	C CAPACITOR	0.01uF 25V K
C1003	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C1004	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C1005	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C1006	NDC31HJ-150X	C CAPACITOR	15pF 50V J
C1007	NCB31EK-103X	C CAPACITOR	0.01uF 25V K
C1008	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C1009	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C1010	NDC31HJ-270X	C CAPACITOR	27pF 50V J
C1011	NCB31EK-103X	C CAPACITOR	0.01uF 25V K
C1012	NEHL1CM-106X	E CAPACITOR	10uF 16V M

△Ref No.	Part No.	Part Name	Description Local
R1001	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1003	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1004	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J
R1005	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1006	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1008	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1011	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1012	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1014	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1027	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J
RA1001	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4
RA1002	NRZ0040-473X	NET RESISTOR	47kΩ 1/16W J x4
L1001	NQR0506-001X	EMI FILTER	
LC1001	NQR0415-001X	EMI FILTER	1uF 10V M
X1001	NAX0644-001X	CRYSTAL	6.000000MHz

DIGITAL SIGNAL P.W. BOARD ASS'Y (SSR0D002A-M2)

△Ref No.	Part No.	Part Name	Description Local
IC005	SN74LVC1G02V-X	IC	
IC013	SN74AHC2G34T-X	IC	
IC014	TC7MB3257FK-X	IC	
IC104	SN74AHC2G74T-X	IC	
IC105	SN74AHC1G08V-X	IC	
IC106	S-80828CLNB-G-W	IC	
IC107	LP3964EMP-ADJ-X	IC	
IC205	SN74LVC2G126T-X	IC	
IC206	SN74LVC1G126V-X	IC	
IC631	TC7S66F-X	IC(DIGITAL)	
IC1004	LP2995M-X	IC	
IC3001	JCC5055A	IC	
IC3101	UPD64012GJ	IC	
IC3107	K4S161622H-UC60	IC	
IC3108	SN74LVC1G08V-X	IC	
IC3111	R1170H331B-X	IC	
IC3501	K4D263238F-UC50	IC	
IC3502	K4D263238F-UC50	IC	
ICB001	SN74AHC1G66K-X	IC	
ICB002	SN74AHC1G66K-X	IC	
ICB003	SN74AHC1G66K-X	IC	
Q3001	2SC3928A/QR/-X	TRANSISTOR	
Q3002	2SA1530A/QR/-X	TRANSISTOR	
Q3003	2SC3928A/QR/-X	TRANSISTOR	
Q3004	2SA1530A/QR/-X	TRANSISTOR	
QB011	2SC3837K/NP/-X	TRANSISTOR	
QB012	2SA1022/BC/-X	TRANSISTOR	
QB014	2SA1022/BC/-X	TRANSISTOR	
QB015	2SA1022/BC/-X	TRANSISTOR	
QB019	2SC3928A/QR/-X	TRANSISTOR	
QB021	2SC3837K/NP/-X	TRANSISTOR	
QB022	2SA1022/BC/-X	TRANSISTOR	
QB024	2SA1022/BC/-X	TRANSISTOR	
QB031	2SC3837K/NP/-X	TRANSISTOR	
QB032	2SA1022/BC/-X	TRANSISTOR	
QB034	2SA1022/BC/-X	TRANSISTOR	
QB151	2SA1022/BC/-X	TRANSISTOR	
QB152	2SC3928A/QR/-X	TRANSISTOR	
QB181	2SA1022/BC/-X	TRANSISTOR	
QB182	2SC3928A/QR/-X	TRANSISTOR	
QB212	2SC3837K/NP/-X	TRANSISTOR	
QB213	2SC3837K/NP/-X	TRANSISTOR	
QB214	2SC3837K/NP/-X	TRANSISTOR	
QB215	2SC3837K/NP/-X	TRANSISTOR	
QB242	2SC3837K/NP/-X	TRANSISTOR	
QB243	2SC3837K/NP/-X	TRANSISTOR	
QB244	2SC3837K/NP/-X	TRANSISTOR	
QB245	2SC3837K/NP/-X	TRANSISTOR	
QB272	2SC3837K/NP/-X	TRANSISTOR	
QB273	2SC3837K/NP/-X	TRANSISTOR	
QB274	2SC3837K/NP/-X	TRANSISTOR	
QB275	2SC3837K/NP/-X	TRANSISTOR	
QB632	2SC3837K/NP/-X	TRANSISTOR	
QB633	2SC3837K/NP/-X	TRANSISTOR	
QB634	2SC3837K/NP/-X	TRANSISTOR	
QB635	2SC3837K/NP/-X	TRANSISTOR	
QB636	2SA1022/BC/-X	TRANSISTOR	
QB637	2SC3837K/NP/-X	TRANSISTOR	
QB1811	SSM3K17FU-X	MOS FET	
QB1812	SSM3K17FU-X	MOS FET	
QB1821	SSM3K17FU-X	MOS FET	
QB1822	SSM3K17FU-X	MOS FET	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
D1002	MA8030/H-X	Z DIODE		C3143	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1018	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3145	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1067	NEHL1CM-106X	E CAPACITOR	10uF 16V M	C3146	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1077	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3147	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1078	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3148	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1082	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C3149	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3002	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3150	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3004	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3151	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3005	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3152	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3006	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3153	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3007	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3154	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3008	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3155	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3011	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3156	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3012	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3157	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3014	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3158	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3015	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3159	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3160	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3019	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3161	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3020	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3162	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3021	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3163	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3022	NBZ0007-107X	SP E CAPACITOR	100uF 4V M	C3170	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3023	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3171	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3024	NDC31HJ-150X	C CAPACITOR	15pF 50V J	C3172	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3173	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3031	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3174	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3032	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3180	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3037	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K	C3185	NCB10JK-106X	C CAPACITOR	10uF 6.3V K
C3041	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C3186	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C3042	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3187	NEHL1CM-476X	E CAPACITOR	47uF 16V M
C3043	NDC31HJ-101X	C CAPACITOR	100pF 50V J	C3188	NCB10JK-106X	C CAPACITOR	10uF 6.3V K
C3044	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3501	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3045	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3503	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3047	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3506	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3049	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3507	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3051	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C3508	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3052	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	C3509	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C3056	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	C3511	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3059	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	C3515	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3060	NCB31HK-152X	C CAPACITOR	1500pF 50V K	C3516	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3063	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3517	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3065	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3518	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3519	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3067	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3524	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3068	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3527	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3069	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3530	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3070	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3531	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3071	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3532	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3533	NCB30JK-225X	C CAPACITOR	2.2uF 6.3V K
C3074	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3535	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3075	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3539	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3076	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3540	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3101	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3542	NCF31CZ-474X	C CAPACITOR	0.47uF 16V Z
C3102	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C3543	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3104	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3548	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3106	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C3549	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C3107	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3550	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3108	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3551	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C3109	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3552	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3110	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3561	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C3111	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C3562	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C3112	NDC31HJ-100X	C CAPACITOR	10pF 50V J	CB008	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3113	NDC31HJ-100X	C CAPACITOR	10pF 50V J	CB010	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3114	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB011	NEHL1CM-106X	E CAPACITOR	10uF 16V M
C3115	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB016	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3116	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB023	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3117	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB070	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3118	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB111	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C3119	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB112	NENA1AM-106X	BP E CAPACITOR	10uF 10V M
C3120	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB119	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3121	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB120	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C3122	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB122	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB127	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C3124	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB151	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C3125	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB152	NENA1AM-336X	BP E CAPACITOR	33uF 10V M
C3126	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB154	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C3127	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB155	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3129	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	CB156	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C3130	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB157	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C3132	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	CB181	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C3133	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB182	NENA1AM-336X	BP E CAPACITOR	33uF 10V M
C3134	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB184	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C3135	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB185	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3136	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB186	NEHM1CM-476X	E CAPACITOR	47uF 16V M
C3137	NEHL1CM-106X	E CAPACITOR	10uF 16V M	CB187	NDC31HJ-820X	C CAPACITOR	82pF 50V J
C3138	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB190	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C3139	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB302	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C3140	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB303	NBZ0007-107X	SP E CAPACITOR	100uF 4V M
C3141	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	CB357	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C3142	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	CB359	NDC31HJ-221X	C CAPACITOR	220pF 50V J
				CB360	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
CB361	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R3053	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
CB364	NBP51CM-476X	TA E CAPACITOR	47uF 16V M	R3054	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
CB371	NCB10JK-106X	C CAPACITOR	10uF 6.3V K	R3063	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
CB375	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R3064	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
CB381	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R3065	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
CB428	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
CB429	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3069	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
CB511	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3090	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
CB512	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3091	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
CB515	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3092	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
CB517	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3093	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
CB519	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3094	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB521	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	R3095	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB522	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3096	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB523	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3097	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB524	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3098	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB541	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3099	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB542	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3101	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB543	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3102	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB545	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3103	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB547	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3104	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB549	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3105	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
CB551	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3106	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB552	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3107	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB553	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3108	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB571	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3109	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB572	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3110	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB573	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3171	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB575	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3173	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB577	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3181	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J
CB579	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3182	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
CB581	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3186	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
CB582	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3187	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
CB583	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3188	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
CB631	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3201	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB632	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3202	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB633	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3203	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB635	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3204	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB636	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3205	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB638	NDC31HJ-5R0X	C CAPACITOR	5pF 50V J	R3206	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB640	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R3502	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB641	NEHL1CM-476X	E CAPACITOR	47uF 16V M	R3503	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB642	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3505	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB643	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3507	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB644	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3509	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB645	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J	R3511	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB646	NDC31HJ-390X	C CAPACITOR	39pF 50V J	R3514	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB647	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R3516	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1208	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3518	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1226	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3520	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1228	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	R3522	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1244	NEHM1CM-476X	E CAPACITOR	47uF 16V M	R3524	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1246	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3525	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1250	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3527	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1254	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R3529	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
CB1255	NEHL0JM-107X	E CAPACITOR	100uF 6.3V M	R3531	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1014	NRSA63J-220X	MG RESISTOR	22Ω 1/16W J	R3533	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1015	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R3536	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1039	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3538	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1040	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3540	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R1060	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3542	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R3001	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3544	NRSA63J-510X	MG RESISTOR	51Ω 1/16W J
R3003	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3550	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R3004	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R3551	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
R3006	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3002	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RA3004	NRZ0034-103W	NET RESISTOR	10kΩ 1/32W J x4
R3010	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J	RA3013	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R3018	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	RA3014	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R3019	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	RA3015	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R3020	NRSA02J-3R3X	MG RESISTOR	3.3Ω 1/10W J	RA3016	NRZ0034-220W	NET RESISTOR	22Ω 1/32W J x4
R3021	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	RA3018	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R3022	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	RA3020	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R3023	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D	RA3022	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R3024	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3023	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3028	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3024	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3029	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	RA3025	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3030	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D	RA3026	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3031	NRSA63D-151X	MG RESISTOR	150Ω 1/16W D	RA3028	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R3032	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	RA3030	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R3033	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	RA3032	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J
R3034	NRSA63J-5R6X	MG RESISTOR	5.6Ω 1/16W J	RA3101	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3036	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3102	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3040	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	RA3103	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3041	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RA3104	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3042	NRSA63J-201X	MG RESISTOR	200Ω 1/16W J	RA3105	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3043	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	RA3106	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3044	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	RA3107	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3047	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	RA3108	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
R3048	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J	RA3110	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4
				RA3111	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
RA3112	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB354	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
RA3113	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB355	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
RA3502	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB357	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RA3506	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB361	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RA3508	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB362	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D
RA3512	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB363	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D
RA3516	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB364	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
RA3518	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB463	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RA3521	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB464	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RA3523	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB465	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RA3526	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB466	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RA3530	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB511	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RA3531	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB512	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RA3536	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB513	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RA3540	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB514	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RA3542	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB517	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
RA3545	NRZ0080-510X	NET RESISTOR	51Ω 1/16W J	RB518	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RA3547	NRZ0040-510X	NET RESISTOR	51Ω 1/16W J x4	RB519	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
RB001	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RB520	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB002	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	RB521	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB003	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB522	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB005	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	RB523	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB010	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB524	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB016	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RB525	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB017	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	RB526	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB018	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB527	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB020	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB528	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
RB025	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB529	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
RB029	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	RB530	NRSA63D-561X	MG RESISTOR	560Ω 1/16W D
RB030	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	RB531	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB031	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB532	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB033	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB533	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB038	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB534	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
RB055	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB541	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB056	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB542	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB091	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB543	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB093	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB544	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB094	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB547	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
RB095	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB548	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
RB110	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB549	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB111	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB550	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB113	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RB551	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB116	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB552	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB120	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB554	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB121	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RB555	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB122	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	RB556	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D
RB123	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB557	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
RB124	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	RB558	NRSA63D-391X	MG RESISTOR	390Ω 1/16W D
RB125	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	RB559	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB126	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB560	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB561	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB129	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RB562	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
RB130	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	RB571	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB131	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RB572	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB140	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB573	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB141	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB574	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB143	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RB577	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
RB146	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB578	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
RB150	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB579	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB151	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RB580	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB152	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RB581	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB153	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	RB582	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB154	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	RB584	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB155	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB585	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB156	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB586	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D
RB157	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB587	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
RB159	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	RB588	NRSA63D-391X	MG RESISTOR	390Ω 1/16W D
RB160	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	RB589	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
RB161	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RB590	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB170	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB591	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB171	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB592	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
RB173	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	RB631	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB176	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB632	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB180	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB633	NRSA63J-242X	MG RESISTOR	2.4kΩ 1/16W J
RB181	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	RB634	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
RB182	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RB637	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
RB183	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	RB638	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB184	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	RB639	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB185	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB640	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
RB186	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB641	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
RB187	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB642	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB189	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	RB643	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
RB190	NRSA63J-330X	MG RESISTOR	33Ω 1/16W J	RB644	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB191	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	RB646	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB647	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB347	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB648	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J
RB349	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB649	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
RB350	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB650	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
RB352	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB651	NRSA63D-821X	MG RESISTOR	820Ω 1/16W D
RB353	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	RB652	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local
RB653	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
RB654	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB655	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
RB656	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
RB657	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB658	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
RB659	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J
RB660	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
RB1201	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1203	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1205	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1207	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1209	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1211	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1212	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1213	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1214	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1216	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1217	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1218	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1219	NCB31AK-105X	C CAPACITOR	1uF 10V K
RB1220	NCB31AK-105X	C CAPACITOR	1uF 10V K
RB1221	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
RB1222	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1223	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1224	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1225	QRE121J-223Y	C RESISTOR	22kΩ 1/2W J
RB1232	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1241	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1242	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1243	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1247	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1248	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1249	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1250	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1255	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
RB1811	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB1812	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB1821	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
RB1822	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J

L1004	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L1005	NQR0413-003X	FERRITE BEADS	
L1006	NQR0413-003X	FERRITE BEADS	
L1007	NQR0413-003X	FERRITE BEADS	
L1017	NQR0489-002X	FERRITE BEADS	
L1018	NQL092K-R47X	COIL	0.47uH K
L1019	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3006	NQR0413-003X	FERRITE BEADS	
L3010	NQR0489-002X	FERRITE BEADS	
L3012	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
L3101	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3102	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3103	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3104	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
L3105	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LB021	NQR0489-002X	FERRITE BEADS	
LB022	NQR0489-002X	FERRITE BEADS	
LB211	NQL092K-2R2X	COIL	2.2uH K
LB241	NQL092K-2R2X	COIL	2.2uH K
LB271	NQL092K-2R2X	COIL	2.2uH K
LB631	NQL092K-2R2X	COIL	2.2uH K

CN004	QGB1509K1-55T	CONNECTOR	B-B (1-55)
J001	NNZ0117-001	HDMI CONNECTOR	DIGITAL IN
K1009	NQR0489-002X	FERRITE BEADS	
K3001	NQR0489-002X	FERRITE BEADS	
K3180	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
LC027	NQR0483-005X	EMI FILTER	100uF 25V Z
LC1208	NQR0483-005X	EMI FILTER	100uF 25V Z
LC1226	NQR0483-005X	EMI FILTER	100uF 25V Z
LC1228	NQR0483-005X	EMI FILTER	100uF 25V Z
LC1250	NQR0483-005X	EMI FILTER	100uF 25V Z
LC1254	NQR0483-005X	EMI FILTER	100uF 25V Z
X1001	NAX0635-001X	CXO	
X3003	NAX0526-001X	CXO	74.1758MHz
X3101	NAX0666-001X	CRYSTAL	24.576000MHz

FRONT CONTROL P.W. BOARD ASS'Y (SSR0L002A-M2)

△Ref No.	Part No.	Part Name	Description Local
Q1901	2SC3928A/QR/-X	TRANSISTOR	
D1402	MA8100/M/-X	Z DIODE	
D1403	MA8100/M/-X	Z DIODE	
D1404	MA8100/M/-X	Z DIODE	

△Ref No.	Part No.	Part Name	Description Local
D1405	MA8100/M/-X	Z DIODE	
D1406	MA8100/M/-X	Z DIODE	
D1735	MA8100/M/-X	Z DIODE	
C1442	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1443	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1444	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1445	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1446	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1703	QETN1CM-106Z	E CAPACITOR	10uF 16V M
C1704	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
R1401	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1402	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R1403	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R1404	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1405	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1411	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1412	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1417	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1418	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1419	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1420	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1732	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1748	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1749	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1750	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R1751	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J

CN100G	QJB003-133423-E	SIN ID C-B WIRE	
CN100H	QJB003-113421-E	SIN ID C-B WIRE	
CN100Z	QJB003-060806-E	SIN ID C-B WIRE	
J1401	QNZ0453-001	AV JACK	S/V/L/R IN
LC1402	QQR1653-001	C MODE CHOKE COIL	
LC1403	QQR1653-001	C MODE CHOKE COIL	
S1702	QSW0619-003Z	TACT SWITCH	MENU
S1703	QSW0619-003Z	TACT SWITCH	CH-
S1704	QSW0619-003Z	TACT SWITCH	CH+
S1705	QSW0619-003Z	TACT SWITCH	VOL-
S1706	QSW0619-003Z	TACT SWITCH	VOL+

FRONT SW P.W. BOARD ASS'Y (SSR0L102A-M2)

△Ref No.	Part No.	Part Name	Description Local
IC2703	GP1UM281QK	IR DETECT UNIT	38kHz
Q2701	2SC3928A/QR/-X	TRANSISTOR	
D2701	LG22440	LED	POWER
D2702	MA8068-X	Z DIODE	
C2715	QETN1EM-476Z	E CAPACITOR	47uF 25V M
R2702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2703	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2705	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R2706	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R2707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R2708	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
S2701	QSW0847-001	TACT SWITCH	POWER

ATSC TUNER MODULE P.W. BOARD ASS'Y (SSD-2201A-M2)

△Ref No.	Part No.	Part Name	Description Local
△MD001	SSD-2201A-M2	ATSC TUNER MODULE PWB	

PRINTED WIRING BOARD PARTS LIST [AV-32S776/Y]

MAIN P.W. BOARD ASS'Y (SSR-1005A-M2)

△Ref No.	Part No.	Part Name	Description	Local	△Ref No.	Part No.	Part Name	Description	Local
IC1101	L7805CP	IC			D1304	MA111-X	SI DIODE		
IC1140	CXA2205Q-X	IC			D1308	MA111-X	SI DIODE		
IC1301	AN15394A	IC			D1401	MA8033/H/-X	Z DIODE		
IC1401	TB1306FG	IC			D1403	MA8030/H/-X	Z DIODE		
IC1402	SN74HC32NS-X	IC (DIGITAL)			D1405	MA111-X	SI DIODE		
IC1403	SN74LVC3G14U-X	IC			D1406	MA111-X	SI DIODE		
IC1501	CXA2089Q-X	IC			D1667	MA111-X	SI DIODE		
IC1641	NJM2150AM-X	IC			D1668	MA111-X	SI DIODE		
IC1661	AN5277	IC			D1669	MA111-X	SI DIODE		
IC1701	MN102HF75KPT	IC(MCU)			D1680	MTZJ5.1B-T2	Z DIODE		
IC1702	S-80828CLNB-G-W	IC			D1702	MA111-X	SI DIODE		
IC1703	TPS855	PHOTO CONDUCTOR			D1704	MA111-X	SI DIODE		
IC1801	TB1308FG	IC			D1710	MA111-X	SI DIODE		
IC1803	ATE128-32S766Y	IC	(SERVICE)		D1711	MA111-X	SI DIODE		
IC1812	SN74AHC2G08T-X	IC			D1730	MA8068-X	Z DIODE		
IC1902	BA033T	REGULATOR IC			D1731	MA8033-X	Z DIODE		
IC1911	PQ033RD01SZ	IC			D1841	MA8082/M/-X	Z DIODE		
IC1941	PQ1CG21H2FZ	IC			D1842	MA8082/M/-X	Z DIODE		
IC1942	PQ1CY1032Z-W	IC			D1843	MA8051/M/-X	Z DIODE		
IC1943	PQ1CY1032Z-W	IC			D1844	MA8051/M/-X	Z DIODE		
IC1981	PQ1CY1032Z-W	IC			D1851	MA111-X	SI DIODE		
IC1991	PQ120RDA1SZ	IC			D1852	MA111-X	SI DIODE		
IC1993	MM1565AF-X	IC			D1853	MA8100/M/-X	Z DIODE		
IC2101	QNZ0727-001	OPT CONNECTOR			D1854	MA8100/M/-X	Z DIODE		
Q1103	UN221C-X	DIGI TRANSISTOR			D1855	MA111-X	SI DIODE		
Q1104	2SA1530A/QR/-X	TRANSISTOR			D1901	1SR35-400A-T2	SI DIODE		
Q1301	2SC3928A/QR/-X	TRANSISTOR			D1940	MA111-X	SI DIODE		
Q1302	2SC3928A/QR/-X	TRANSISTOR			D1947	EC31QS04-X	SB DIODE		
Q1304	2SC3928A/QR/-X	TRANSISTOR			D1948	EC31QS04-X	SB DIODE		
Q1305	2SC3928A/QR/-X	TRANSISTOR			D1949	EC31QS04-X	SB DIODE		
Q1306	2SC3928A/QR/-X	TRANSISTOR			D1962	MA3030/H/-X	Z DIODE		
Q1308	2SC3928A/QR/-X	TRANSISTOR			D1964	MA111-X	SI DIODE		
Q1309	2SA1022/BC/-X	TRANSISTOR			D1965	MA111-X	SI DIODE		
Q1310	2SA1022/BC/-X	TRANSISTOR			D1967	PTZ6.8B-X	Z DIODE		
Q1311	2SA1022/BC/-X	TRANSISTOR			D1968	PTZ3.9B-X	Z DIODE		
Q1312	2SA1022/BC/-X	TRANSISTOR			D1969	PTZ11B-X	Z DIODE		
Q1313	2SC3837K/NP/-X	TRANSISTOR			D1981	EC31QS04-X	SB DIODE		
Q1314	2SC3837K/NP/-X	TRANSISTOR			D1983	PTZ3.9B-X	Z DIODE		
Q1315	2SC3837K/NP/-X	TRANSISTOR			D1991	MA111-X	SI DIODE		
Q1316	2SC3928A/QR/-X	TRANSISTOR			D1993	MA111-X	SI DIODE		
Q1317	2SC3837K/NP/-X	TRANSISTOR			D1994	MA8150/M/-X	Z DIODE		
Q1318	2SC3837K/NP/-X	TRANSISTOR			D1995	MA8300/H/-X	Z DIODE		
Q1319	2SC3837K/NP/-X	TRANSISTOR			D2101	MA8100/M/-X	Z DIODE		
Q1401	2SC3928A/QR/-X	TRANSISTOR			D2121	MA8100/M/-X	Z DIODE		
Q1531	2SC3928A/QR/-X	TRANSISTOR			D2201	MA8100/M/-X	Z DIODE		
Q1668	UN2213-X	DIGI TRANSISTOR			D2204	MA8100/M/-X	Z DIODE		
Q1669	2SC3928A/QR/-X	TRANSISTOR			D2205	MA8100/M/-X	Z DIODE		
Q1671	UN2213-X	DIGI TRANSISTOR			D2206	MA8100/M/-X	Z DIODE		
Q1672	2SC3928A/QR/-X	TRANSISTOR			D2209	MA8100/M/-X	Z DIODE		
Q1673	2SA1530A/QR/-X	TRANSISTOR			D2210	MA8100/M/-X	Z DIODE		
Q1674	2SC3928A/QR/-X	TRANSISTOR			D2212	MA8100/M/-X	Z DIODE		
Q1701	UN2213-X	DIGI TRANSISTOR			D2213	MA8100/M/-X	Z DIODE		
Q1702	2SA1530A/QR/-X	TRANSISTOR			D2215	MA8100/M/-X	Z DIODE		
Q1703	2SA1530A/QR/-X	TRANSISTOR			D2216	MA8100/M/-X	Z DIODE		
Q1704	2SA1530A/QR/-X	TRANSISTOR			D2217	MA8100/M/-X	Z DIODE		
Q1706	2SC3928A/QR/-X	TRANSISTOR			D2218	MA8100/M/-X	Z DIODE		
Q1707	2SC3928A/QR/-X	TRANSISTOR			D2219	MA8100/M/-X	Z DIODE		
Q1710	2SC3928A/QR/-X	TRANSISTOR			D2302	MA8100/M/-X	Z DIODE		
Q1711	2SC3928A/QR/-X	TRANSISTOR			D2304	MA8100/M/-X	Z DIODE		
Q1715	2SC3928A/QR/-X	TRANSISTOR			D2305	MA8100/M/-X	Z DIODE		
Q1716	2SC3928A/QR/-X	TRANSISTOR			D2307	MA8100/M/-X	Z DIODE		
Q1851	2SA1530A/QR/-X	TRANSISTOR			D2321	MA8100/M/-X	Z DIODE		
Q1852	2SA1530A/QR/-X	TRANSISTOR			D2322	MA8100/M/-X	Z DIODE		
Q1853	2SC2785/JH/-T	TRANSISTOR			D2323	MA8100/M/-X	Z DIODE		
Q1871	2SA1022/BC/-X	TRANSISTOR			C1101	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
Q1881	2SA1022/BC/-X	TRANSISTOR			C1102	QETN1CM-476Z	E CAPACITOR	47uF 16V M	
Q1891	2SA1022/BC/-X	TRANSISTOR			C1103	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
Q1915	UN2213-X	DIGI TRANSISTOR			C1140	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q1916	UN2213-X	DIGI TRANSISTOR			C1141	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	
Q1961	2SC3928A/QR/-X	TRANSISTOR			C1145	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
Q1962	2SC3928A/QR/-X	TRANSISTOR			C1146	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q1964	2SC3928A/QR/-X	TRANSISTOR			C1147	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
Q1965	UN2213-X	DIGI TRANSISTOR			C1148	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
Q1983	UN2213-X	DIGI TRANSISTOR			C1149	NCB31HK-472X	C CAPACITOR	4700pF 50V K	
Q1984	2SC4682-T	TRANSISTOR			C1150	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
Q2257	UN2226-X	DIGI TRANSISTOR			C1151	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
Q2258	UN2226-X	DIGI TRANSISTOR			C1152	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
Q2259	UN2110-X	DIGI TRANSISTOR			C1153	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
D1145	MA8082/M/-X	Z DIODE			C1154	NCB31HK-123X	C CAPACITOR	0.012uF 50V K	
D1146	MA8082/M/-X	Z DIODE			C1155	QETN1HM-105Z	E CAPACITOR	1uF 50V M	
D1301	MA8100/M/-X	Z DIODE			C1156	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
D1302	MA111-X	SI DIODE			C1157	QETN1HM-106Z	E CAPACITOR	10uF 50V M	
D1303	MA111-X	SI DIODE			C1158	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	
					C1159	QETN1CM-107Z	E CAPACITOR	100uF 16V M	
					C1160	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	
					C1161	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M	

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1162	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1519	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1163	NCB31HK-272X	C CAPACITOR	2700pF 50V K	C1531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1164	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1532	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1165	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1533	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1166	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1539	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C1167	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1641	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C1168	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1642	NCB31CK-153X	C CAPACITOR	0.015uF 16V K
C1169	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1643	NCB31CK-473X	C CAPACITOR	0.047uF 16V K
C1170	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1644	QETN1CM-227Z	E CAPACITOR	220uF 16V M
C1171	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1645	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1172	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C1646	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1301	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1647	QETN1HM-226Z	E CAPACITOR	22uF 50V M
C1302	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	C1648	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1303	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	C1651	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M
C1304	QENC1HM-105Z	BP E CAPACITOR	1uF 50V M	C1652	NCB31CK-153X	C CAPACITOR	0.015uF 16V K
C1305	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1653	NCB31CK-473X	C CAPACITOR	0.047uF 16V K
C1306	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1667	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1307	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C1668	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1308	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C1669	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1309	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C1670	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1310	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C1671	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1311	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1672	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1312	QETN1EM-475Z	E CAPACITOR	4.7uF 25V M	C1673	QETN1HM-477Z	E CAPACITOR	470uF 50V M
C1313	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1674	QETM1HM-108	E CAPACITOR	1000uF 50V M
C1314	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1675	QFV21HJ-124Z	MF CAPACITOR	0.12uF 50V J
C1315	QETN1HM-335Z	E CAPACITOR	3.3uF 50V M	C1676	QFV21HJ-124Z	MF CAPACITOR	0.12uF 50V J
C1316	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1677	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C1317	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1678	QETN1EM-108Z	E CAPACITOR	1000uF 25V M
C1318	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1679	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1319	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1680	QETN1HM-475Z	E CAPACITOR	4.7uF 50V M
C1320	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1696	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1321	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1697	QETN1HM-476Z	E CAPACITOR	47uF 50V M
C1322	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1701	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1323	NCB11CK-105X	C CAPACITOR	1uF 16V K	C1708	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C1324	NCB31HK-472X	C CAPACITOR	4700pF 50V K	C1709	NDC31HJ-101X	C CAPACITOR	100pF 50V J
C1325	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1710	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1327	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1711	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1328	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1712	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1329	NCB31CK-563X	C CAPACITOR	0.056uF 16V K	C1713	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1330	QETN1HM-226Z	E CAPACITOR	22uF 50V M	C1715	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1331	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1717	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1332	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	C1718	QETN1CM-107Z	E CAPACITOR	100uF 16V M
C1333	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1719	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1334	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1720	NDC31HJ-102X	C CAPACITOR	1000pF 50V J
C1335	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C1721	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1336	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1722	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1337	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C1723	NCB31HK-152X	C CAPACITOR	1500pF 50V K
C1338	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C1724	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1339	NCB31HK-332X	C CAPACITOR	3300pF 50V K	C1725	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C1401	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1726	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C1402	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	C1727	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M
C1405	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1728	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1406	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1729	QETN1EM-476Z	E CAPACITOR	47uF 25V M
C1407	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1730	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1408	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1731	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1409	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1732	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1412	NCB31HK-473X	C CAPACITOR	0.047uF 50V K	C1734	NDC31HJ-560X	C CAPACITOR	56pF 50V J
C1413	NCB31AK-105X	C CAPACITOR	1uF 10V K	C1739	NDC31HJ-391X	C CAPACITOR	390pF 50V J
C1414	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1740	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1415	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1743	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1416	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1744	NDC31HJ-390X	C CAPACITOR	39pF 50V J
C1417	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1745	NCB31HK-153X	C CAPACITOR	0.015uF 50V K
C1418	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1754	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C1420	NCB31HK-471X	C CAPACITOR	470pF 50V K	C1755	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1423	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C1756	NCB31HK-122X	C CAPACITOR	1200pF 50V K
C1424	NCB31AK-474X	C CAPACITOR	0.47uF 10V K	C1757	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1425	NCB31AK-224X	C CAPACITOR	0.22uF 10V K	C1758	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1428	NCB31HK-122X	C CAPACITOR	1200pF 50V K	C1759	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1429	NCB31HK-392X	C CAPACITOR	3900pF 50V K	C1760	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1430	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1761	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1431	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1801	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1432	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1802	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1433	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1803	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1434	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1804	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1435	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1805	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1436	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1806	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1439	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M	C1807	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1440	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1808	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1441	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C1809	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1444	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1810	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1445	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1811	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1446	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1812	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1447	QETN1HM-105Z	E CAPACITOR	1uF 50V M	C1813	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1448	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C1814	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
C1449	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1815	NCF31AZ-105X	C CAPACITOR	1uF 10V Z
C1450	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C1816	NDC31HJ-100X	C CAPACITOR	10pF 50V J
C1460	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1817	NCB31CK-105X	C CAPACITOR	1uF 16V K
C1461	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	C1818	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1464	NDC31HJ-100X	C CAPACITOR	10pF 50V J	C1819	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1510	QENC1CM-106Z	BP E CAPACITOR	10uF 16V M	C1820	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
C1821	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1149	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C1822	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1150	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1824	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1151	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C1825	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1152	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J
C1826	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1157	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1827	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R1158	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1828	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R1159	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1829	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1160	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1830	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R1201	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1831	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R1202	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1832	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R1203	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
C1833	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1204	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1834	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1206	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1835	NCB21CK-105X	C CAPACITOR	1uF 16V K	R1209	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1836	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1280	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1838	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1281	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1839	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1282	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1840	NCB21CK-105X	C CAPACITOR	1uF 16V K	R1283	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1851	QETN1AM-227Z	E CAPACITOR	220uF 10V M	R1284	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1861	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R1287	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1871	QETN1HM-336Z	E CAPACITOR	33uF 50V M	R1288	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1881	QETN1HM-336Z	E CAPACITOR	33uF 50V M	R1289	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1891	QETN1HM-336Z	E CAPACITOR	33uF 50V M	R1292	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1907	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1296	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1908	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R1297	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C1940	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R1301	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J
C1941	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R1302	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C1942	QETN1CM-108Z	E CAPACITOR	1000uF 16V M	R1303	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J
C1943	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1304	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
C1944	QETN1EM-108Z	E CAPACITOR	1000uF 25V M	R1305	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C1945	QE20256-128	E CAPACITOR	1200uF 10V M	R1306	NRSA63J-154X	MG RESISTOR	150kΩ 1/16W J
C1946	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1307	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1947	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R1308	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1948	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R1309	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1949	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1310	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
C1950	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1311	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1951	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R1312	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J
C1952	QE20256-128	E CAPACITOR	1200uF 10V M	R1313	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
C1953	QETN0JM-228Z	E CAPACITOR	2200uF 6.3V M	R1314	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
C1954	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1315	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1955	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1316	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C1960	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1317	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C1961	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1318	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
C1972	QE20256-128	E CAPACITOR	1200uF 10V M	R1319	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1975	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	R1320	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C1979	QETN1EM-477Z	E CAPACITOR	470uF 25V M	R1321	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1980	QETN1VM-477Z	E CAPACITOR	470uF 35V M	R1322	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1985	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	R1323	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1991	QETN1EM-107Z	E CAPACITOR	100uF 25V M	R1324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C1992	QETN1CM-477Z	E CAPACITOR	470uF 16V M	R1325	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
C1994	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1326	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1995	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1327	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1996	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1328	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C1998	QETN1AM-477Z	E CAPACITOR	470uF 10V M	R1332	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C2101	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	R1333	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C2102	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1334	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C2103	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1338	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
C2104	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1339	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C2105	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1340	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C2106	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1341	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C2123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1342	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C2124	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1343	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C2126	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1344	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C2127	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1345	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C2128	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1346	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
C2144	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1347	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
C2145	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1348	NRSA63D-182X	MG RESISTOR	1.8kΩ 1/16W D
C2146	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1349	NRSA63D-152X	MG RESISTOR	1.5kΩ 1/16W D
C2258	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1350	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C2259	NCF31AZ-105X	C CAPACITOR	1uF 10V Z	R1351	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
C2260	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	R1352	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
CB1743	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R1353	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
CB1744	NDC31HJ-330X	C CAPACITOR	33pF 50V J	R1354	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
				R1355	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1101	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1356	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1357	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1104	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1358	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1105	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1359	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1106	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1360	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1107	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1361	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1108	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1362	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1113	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1363	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1114	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1364	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1140	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1365	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1141	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1366	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1142	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1367	NRSA63D-472X	MG RESISTOR	4.7kΩ 1/16W D
R1143	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R1368	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1144	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1369	NRSA63D-332X	MG RESISTOR	3.3kΩ 1/16W D
R1145	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1370	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1147	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	R1371	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1372	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1666	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1401	QRK126J-151X	UNF C RESISTOR	150Ω 1/2W J	R1667	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1402	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R1668	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1403	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1669	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1404	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1670	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1406	QRK126J-471X	UNF C RESISTOR	470Ω 1/2W J	R1671	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R1407	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1672	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J
R1408	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1673	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J
R1409	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	R1674	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J
R1410	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1678	QRE121J-103Y	C RESISTOR	10kΩ 1/2W J
R1411	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1681	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1412	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1413	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	R1691	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1414	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1695	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1416	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1696	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1417	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1697	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1418	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	R1698	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1419	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	R1701	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1420	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1421	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1704	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1422	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1426	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1706	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1427	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1707	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1428	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1708	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1429	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1709	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1430	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R1710	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1441	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	R1711	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1445	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1712	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1447	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R1713	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1451	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1714	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1452	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1715	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1453	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1716	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1454	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1717	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1471	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1718	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1472	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R1719	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J
R1473	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1720	NQR0489-002X	FERRITE BEADS	
R1476	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1721	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1477	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1722	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1478	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1723	NRSA63J-680X	MG RESISTOR	68Ω 1/16W J
R1479	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R1724	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1480	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1725	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1481	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R1726	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1514	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1727	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1520	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1729	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1521	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1730	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
R1522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1731	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1733	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1735	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1525	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1736	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1526	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1737	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1527	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1738	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1528	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1740	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1741	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1530	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1742	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1533	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1744	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1534	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1747	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1535	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1748	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1536	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1750	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1537	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1751	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J
R1538	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1752	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J
R1539	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1753	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1547	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1755	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1756	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1549	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1758	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1560	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R1760	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1761	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1563	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R1762	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1577	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1763	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R1578	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	R1764	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1579	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1765	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1583	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1766	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1584	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1768	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1585	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1769	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1611	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R1770	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1612	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R1771	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1772	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J
R1614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	R1773	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1615	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R1774	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1616	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J	R1775	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1641	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1776	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1642	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1777	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1643	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1778	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1646	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1779	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
R1649	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1780	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1781	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1652	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1782	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1653	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R1784	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1785	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1786	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
R1665	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1787	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J

△Ref No.	Part No.	Part Name	Description Local	△Ref No.	Part No.	Part Name	Description Local
R1788	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R2126	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R1789	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	R2127	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R1790	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	R2145	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R1791	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	R2146	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J
R1795	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2147	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1796	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	R2148	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1798	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2256	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1801	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2257	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1802	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2266	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1803	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2267	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1804	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2271	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1805	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R2272	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1810	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2279	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1815	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2301	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1816	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2302	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1817	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	R2303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1841	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2304	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1842	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2305	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1844	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2306	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1845	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2307	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1846	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R2308	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1847	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	R2309	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1851	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2321	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1852	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2322	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1853	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2323	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1854	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R2324	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1856	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R2325	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1857	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	R2326	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1858	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R2327	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1859	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	R2328	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1860	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	R2329	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1863	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2341	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1864	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2343	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1865	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R2344	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1872	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2346	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1875	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	R2347	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1876	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2349	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1877	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB1717	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1878	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	RB1732	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1882	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	RB1733	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1885	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	RB1763	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1886	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB1764	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1887	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	RB1949	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1888	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	L1401	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R1892	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	L1402	QQR0621-002Z	FERRITE BEADS	
R1895	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J	L1403	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R1896	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L1711	NQL79GM-1R0X	CHIP P COIL	1uH M
R1897	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L1712	NQL085J-3R3X	COIL	3.3uH J
R1898	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	L1713	NQL085J-3R3X	COIL	3.3uH J
R1901	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	L1714	NQL085J-3R3X	COIL	3.3uH J
R1929	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L1801	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R1930	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	L1802	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R1932	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L1941	QQR1401-001	CHOKE COIL	
R1942	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	L1942	QQR1401-001	CHOKE COIL	
R1945	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L1943	QQL26AK-330Z	CHOKE COIL	33uH K
R1949	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	L1944	QQL26AK-330Z	CHOKE COIL	33uH K
R1950	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D	L1945	QQL26AK-220Z	CHOKE COIL	22uH K
△R1951	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	L1946	QQL26AK-220Z	CHOKE COIL	22uH K
R1952	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	L1947	QQR1401-001	CHOKE COIL	
△R1957	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	L1950	QQL26AK-470Z	CHOKE COIL	47uH K
R1958	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D	L1951	QQL26AK-470Z	CHOKE COIL	47uH K
R1959	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	L1952	QQL26AK-470Z	CHOKE COIL	47uH K
R1961	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	L1956	QQL26AK-470Z	CHOKE COIL	47uH K
R1962	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	L1982	QQL26AK-470Z	CHOKE COIL	47uH K
R1963	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	L1983	QQR1401-001	CHOKE COIL	
R1964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	L1984	QQL26AK-100Z	CHOKE COIL	10uH K
R1965	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	CN1001	QGB1506L1-16	CONNECTOR	B-B (1-16)
R1966	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	CN1002	QGB1506L1-16	CONNECTOR	B-B (1-16)
R1967	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	CN1003	QGB1506L1-16	CONNECTOR	B-B (1-16)
R1968	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	CN1004	QGB1509J1-55	CONNECTOR	B-B (1-55)
R1969	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	CN5001	QGB2501J1-11	CONNECTOR	B-B (1-11)
R1971	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	CN5002	QGB2501J1-10	CONNECTOR	B-B (1-10)
R1982	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D	CN6001	QGB2501J1-09	CONNECTOR	B-B (1-9)
R1983	NRSA63D-302X	MG RESISTOR	3kΩ 1/16W D	J2101	QNN0628-001	PIN JACK	V/L/R IN
R1984	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	J2111	QND0104-001	S JACK	S IN
R1985	NRSA63D-153X	MG RESISTOR	15kΩ 1/16W D	J2121	QNN0739-001	PIN JACK	COMPONENT IN
△R1986	QRK126J-331X	UNF C RESISTOR	330Ω 1/2W J	J2231	QNN0738-001	PIN JACK	AUDIO OUT
R1987	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	K1703	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R1988	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	K1943	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R1990	QRT039J-R68	MF RESISTOR	0.68Ω 3W J	K1944	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
R1991	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	SL1701	NAX0137-001X	C OSCILLATOR	4.000MHz
R1993	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J	△TU1101	QAU0448-001	TUNER	
R2101	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	X1401	NAX0795-001X	C RESONATOR	
R2102	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	X1801	NAX0787-001X	CRISTAL	
R2103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R2104	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R2105	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R2106	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J				
R2122	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				
R2123	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J				

POWER & DEF P.W. BOARD ASS'Y (SSR-2002A-M2)

REFER TO PARTS LIST IN PAGE 3-13 FOR THIS P.W. BOARD.

CRT SOCKET P.W. BOARD ASS'Y (SSR-3002A-M2)

REFER TO PARTS LIST IN PAGE 3-15 FOR THIS P.W. BOARD.

SD CARD P.W. BOARD ASS'Y (SSR-8501A-M2)

REFER TO PARTS LIST IN PAGE 3-16 FOR THIS P.W. BOARD.

**DIGITAL SIGNAL P.W. BOARD ASS'Y
(SSR0D002A-M2)**

REFER TO PARTS LIST IN PAGE 3-16 FOR THIS P.W. BOARD.

**FRONT CONTROL P.W. BOARD ASS'Y
(SSR0L002A-M2)**

REFER TO PARTS LIST IN PAGE 3-20 FOR THIS P.W. BOARD.

FRONT SW P.W. BOARD ASS'Y (SSR0L102A-M2)

REFER TO PARTS LIST IN PAGE 3-20 FOR THIS P.W. BOARD.

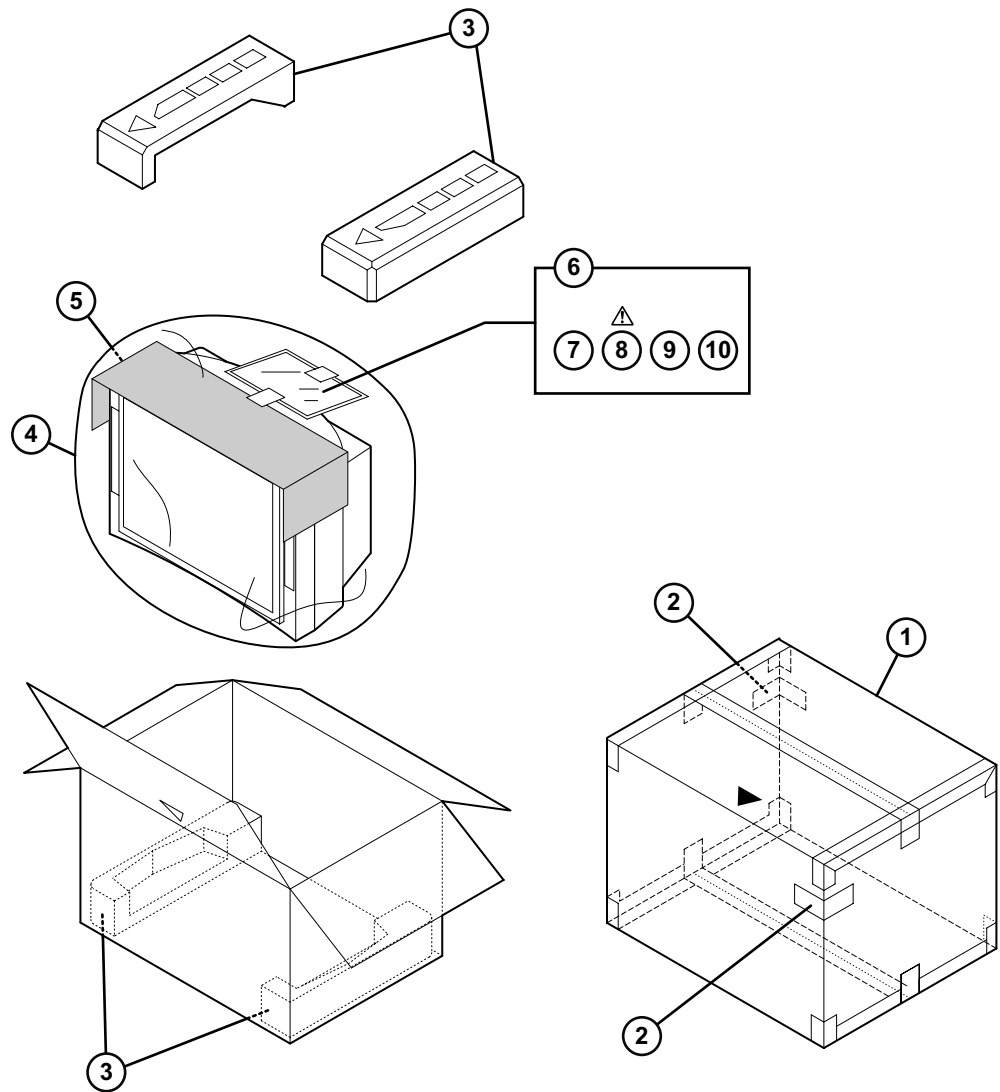
**ATSC TUNER MODULE P.W. BOARD ASS'Y
(SSD-2201A-M2)**

REFER TO PARTS LIST IN PAGE 3-20 FOR THIS P.W. BOARD.

REMOTE CONTROL UNIT PARTS LIST (RM-C1270G-1H)

△ Ref.No.	Part No.	Part Name	Description	Local
	UR77EC0603	BATTERY COVER		

PACKING



PACKING PARTS LIST

△ Ref.No.	Part No.	Part Name	Description	Local
1	GQ10009-036A-A	PACKING CASE		AV-32S766/Y
1	GQ10009-038A-A	PACKING CASE		AV-32S776/Y
2	CM36616-001-A	CORNER LABEL	(x2)	
3	LC11403-002C-A	CUSHION ASSY	4pcs in 1set	AV-32S766/Y
3	LC11560-002F-A	CUSHION ASSY	4pcs in 1set	AV-32S776/Y
4	CP30056-A04-A	POLY BAG		
5	CP30055-A02-A	TOP COVER		
6	QPA02503505	POLY BAG	25cm x 35cm	
7	RM-C1270G-1H	REMOCON	(RM-C1270G)	
8	LCT1855-001B-A	INST BOOK	English	
9	-----	BATTERY	R6P/AA(x2)	
10	BT-51034-2Q	REGIST. CARD		

JVC

Preliminary

SCHEMATIC DIAGRAMS

REAR PROJECTION TELEVISION

**HD-56FH96,
HD-61FH96,
HD-70FH96**

CD-ROM No.SML200511

BASIC CHASSIS

RA



[HD-70FH96]

HD-ILA™
Powered by DILA

D.I.S.T.
Digital Image Scaling Technology

HDTV
HDMI™
HIGH-DEFINITION MULTIMEDIA INTERFACE

BBE




HD-56FH96, HD-61FH96, HD-70FH96

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the  symbol and shading are critical for safety. For continued safety replace safety critical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

- (1)Input signal : Colour bar signal
- (2)Setting positions of each knob/button and variable resistor : Original setting position when shipped
- (3)Internal resistance of tester : DC 20k Ω /V
- (4)Oscilloscope sweeping time : H \Rightarrow 20 μ s / div
: V \Rightarrow 5ms / div
: Others \Rightarrow Sweeping time is specified
- (5)Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

- In the PW board : R209 \rightarrow R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM

(1)Resistors

● Resistance value

- No unit : [Ω]
- K : [k Ω]
- M : [M Ω]

● Rated allowable power

- No indication : 1/16 [W]
- Others : As specified

● Type

- No indication : Carbon resistor
- OMR : Oxide metal film resistor
- MFR : Metal film resistor
- MPR : Metal plate resistor
- UNFR : Uninflammable resistor
- FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

● Capacitance value

- 1 or higher : [pF]
- less than 1 : [μ F]

● Withstand voltage

- No indication : DC50[V]
- Others : DC withstand voltage [V]
- AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

●Type

- No indication : Ceramic capacitor
- MM : Metalized mylar capacitor
- PP : Polypropylene capacitor
- MPP : Metalized polypropylene capacitor
- MF : Metalized film capacitor
- TF : Thin film capacitor
- BP : Bipolar electrolytic capacitor
- TAN : Tantalum capacitor

(3)Coils

- No unit : [μ H]
- Others : As specified

(4)Power Supply



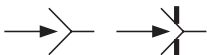
-  : B1
-  : B2 (12V)
-  : 9V
-  : 5V

* Respective voltage values are indicated





(5)Test point

-  : Test point
-  : Only test point display



(6)Connecting method

-  : Connector
-  : Wrapping or soldering
-  : Receptacle

(7)Ground symbol

-  : LIVE side ground
-  : ISOLATED(NEUTRAL) side ground
-  : EARTH ground
-  : DIGITAL ground

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : () side GND and the ISOLATED(NEUTRAL) : () side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.

◆ Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

◆ Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

CONTENTS


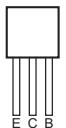
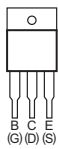
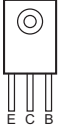
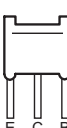
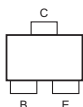
SEMICONDUCTOR SHAPES	2-3
WIRING DIAGRAM	2-5
BLOCK DIAGRAM	2-7
CIRCUIT DIAGRAMS	
TUNER PWB CIRCUIT DIAGRAM	2-9
ANALOG PWB CIRCUIT DIAGRAM	2-13
DIGITAL PWB CIRCUIT DIAGRAM	2-25
DD PWB CIRCUIT DIAGRAM	2-57
POWER PWB CIRCUIT DIAGRAM	2-75
IRIS PWB CIRCUIT DIAGRAM	2-81
FRONT LED PWB CIRCUIT DIAGRAM	2-83
THERMO PWB CIRCUIT DIAGRAM	2-84
LAMP COVER PWB CIRCUIT DIAGRAM	2-85
REMOCON PWB CIRCUIT DIAGRAM	2-86
S CONTROL PWB CIRCUIT DIAGRAM	2-87
SD PWB CIRCUIT DIAGRAM	2-89
CARD PWB CIRCUIT DIAGRAM [HD-70FH96]	2-91
PATTERN DIAGRAMS	
TUNERR PWB PATTERN	2-95
ANALOG PWB PATTERN	2-97
DIGITAL PWB PATTERN	2-101
DD PWB PATTERN	2-105
POWER PWB PATTERN	2-109
IRIS PWB PATTERN	2-113
FRONT LED PWB PATTERN	2-113
THERMO PWB PATTERN	2-113
LAMP COVER SW PWB PATTERN	2-113
REMOCON PWB PATTERN	2-114
S CONTROL PWB PATTERN	2-114
SD PWB PATTERN	2-114
CARD PATTERN [HD-70FH96]	2-115
VOLTAGE CHATRS.....	2-116
WAVEFORMS	2-118

USING P.W. BOARD


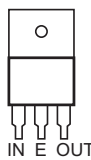
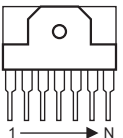
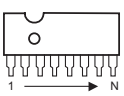
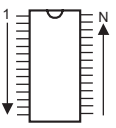
P.W.B ASS'Y name	HD-56FH96	HD-61FH96	HD-70FH96
ANALOG P.W. BOARD	SRA-1002A-M2	←	←
DD P.W. BOARD	SRA-3001A-M2	←	←
REMOCON P.W. BOARD	SRA-8001A-M2	←	←
THERMO P.W. BOARD	SRA-8201A-M2	←	←
IRIS P.W. BOARD	SRA-8301A-M2	←	←
SD P.W. BOARD	SRA-8501A-M2	←	←
POWER P.W. BOARD	SRA-9002A-M2	←	SRA-9001A-M2
DIGITAL P.W. BOARD	SRA0D003A-M2	SRA0D002A-M2	SRA0D001A-M2
S CONTROL P.W. BOARD	SRA0L001A-M2	←	←
FRONT LED P.W. BOARD	SRA0L101A-M2	←	←
LAMP COVER SW P.W. BOARD	SRA0L201A-M2	←	←
TUNER P.W. BOARD	SRA0R001A-M2	←	←

SEMICONDUCTOR SHAPES

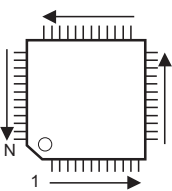
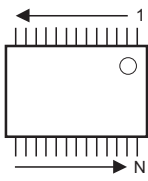
TRANSISTOR

BOTTOM VIEW	FRONT VIEW				TOP VIEW
					CHIP TR 

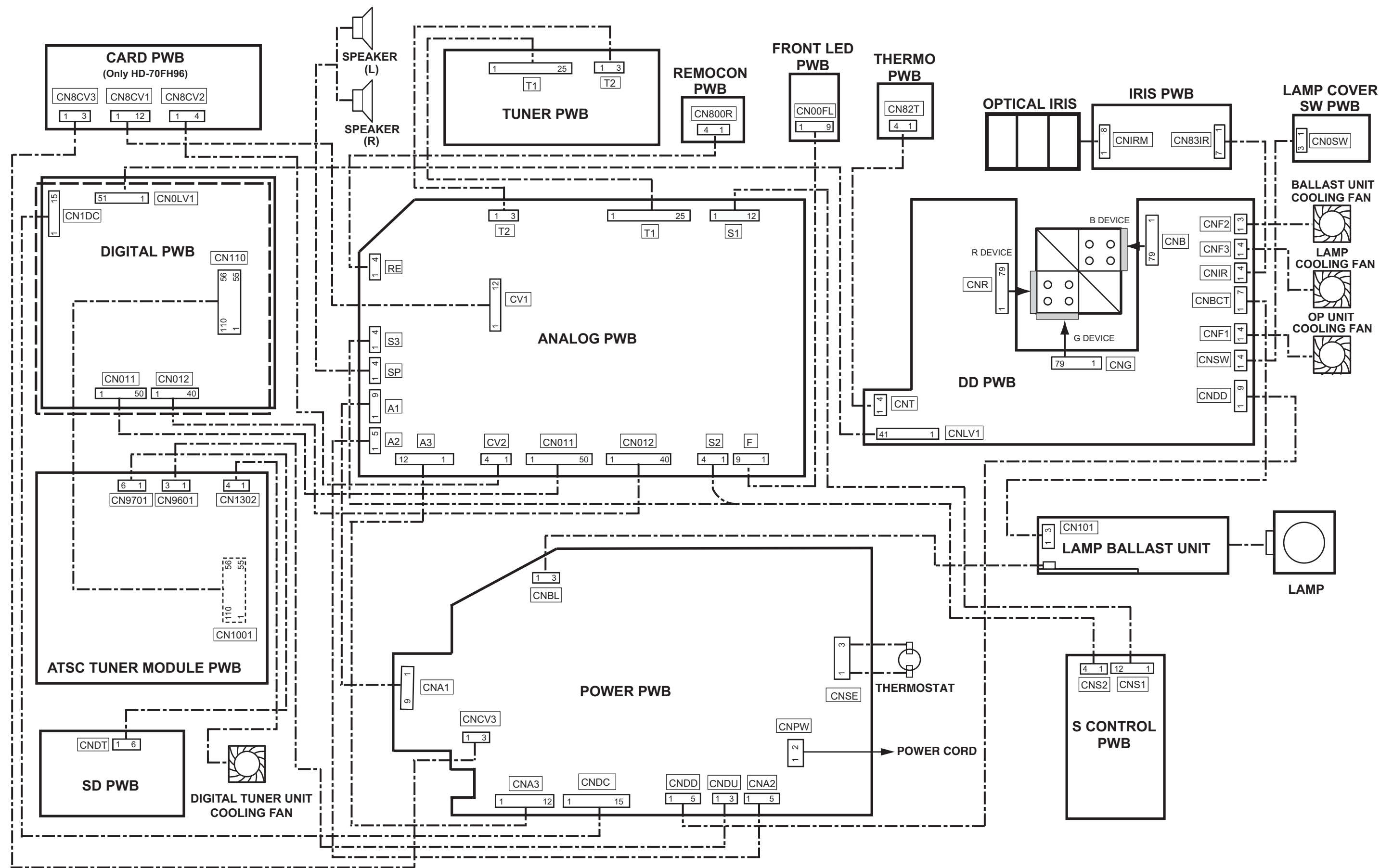
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BOTTOM VIEW	FRONT VIEW			TOP VIEW
				

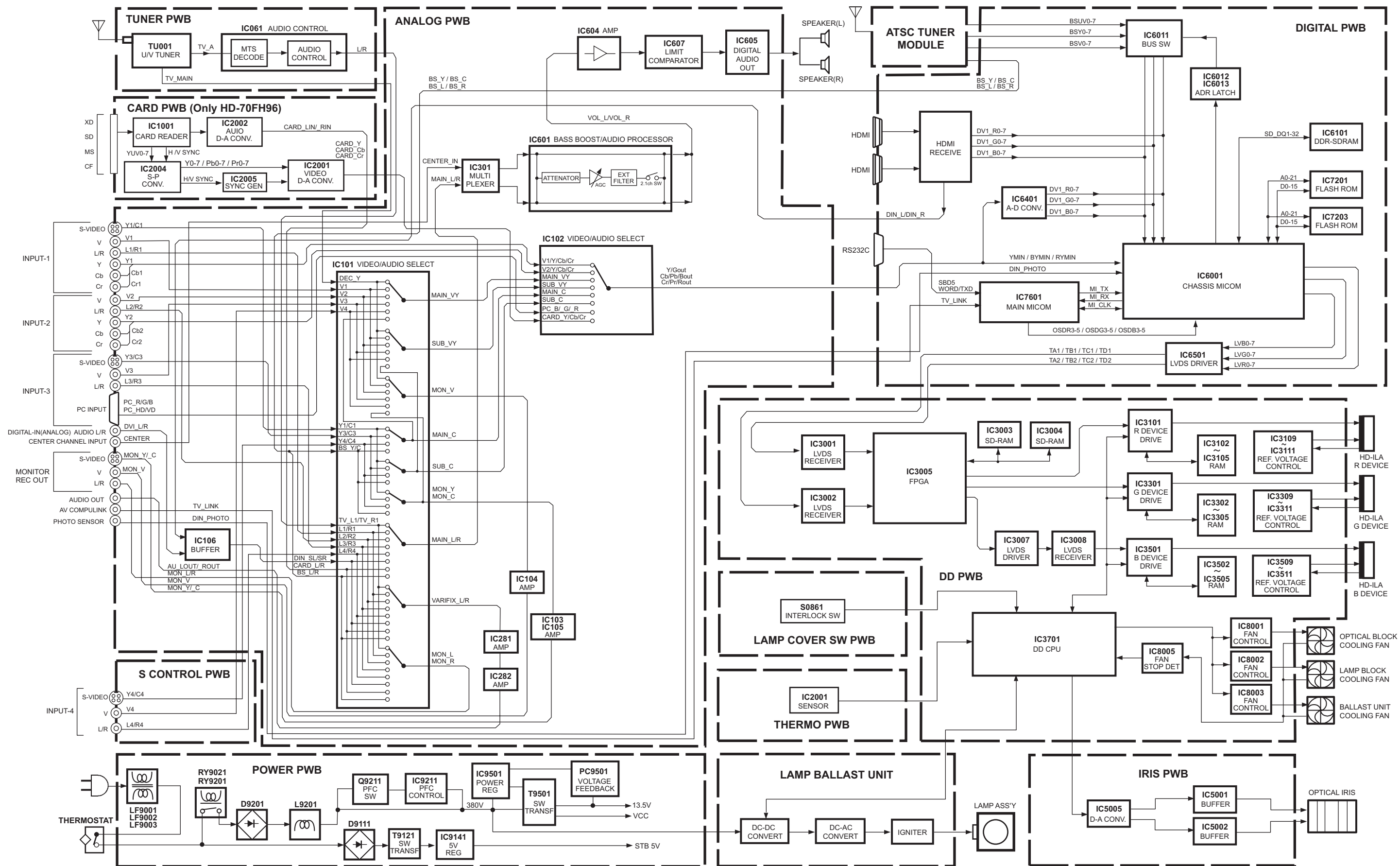
CHIP IC

TOP VIEW		
		

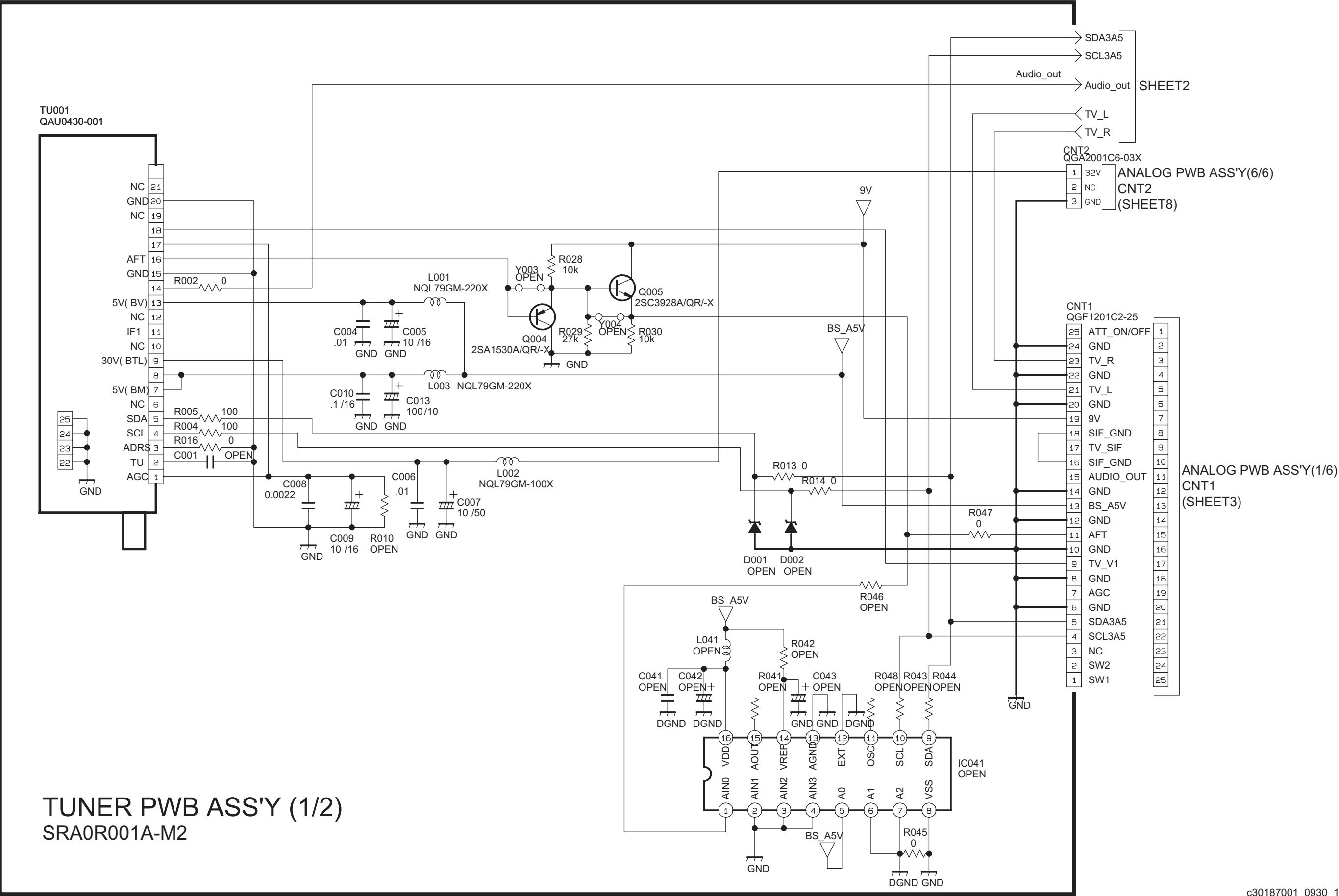
WIRING DIAGRAM

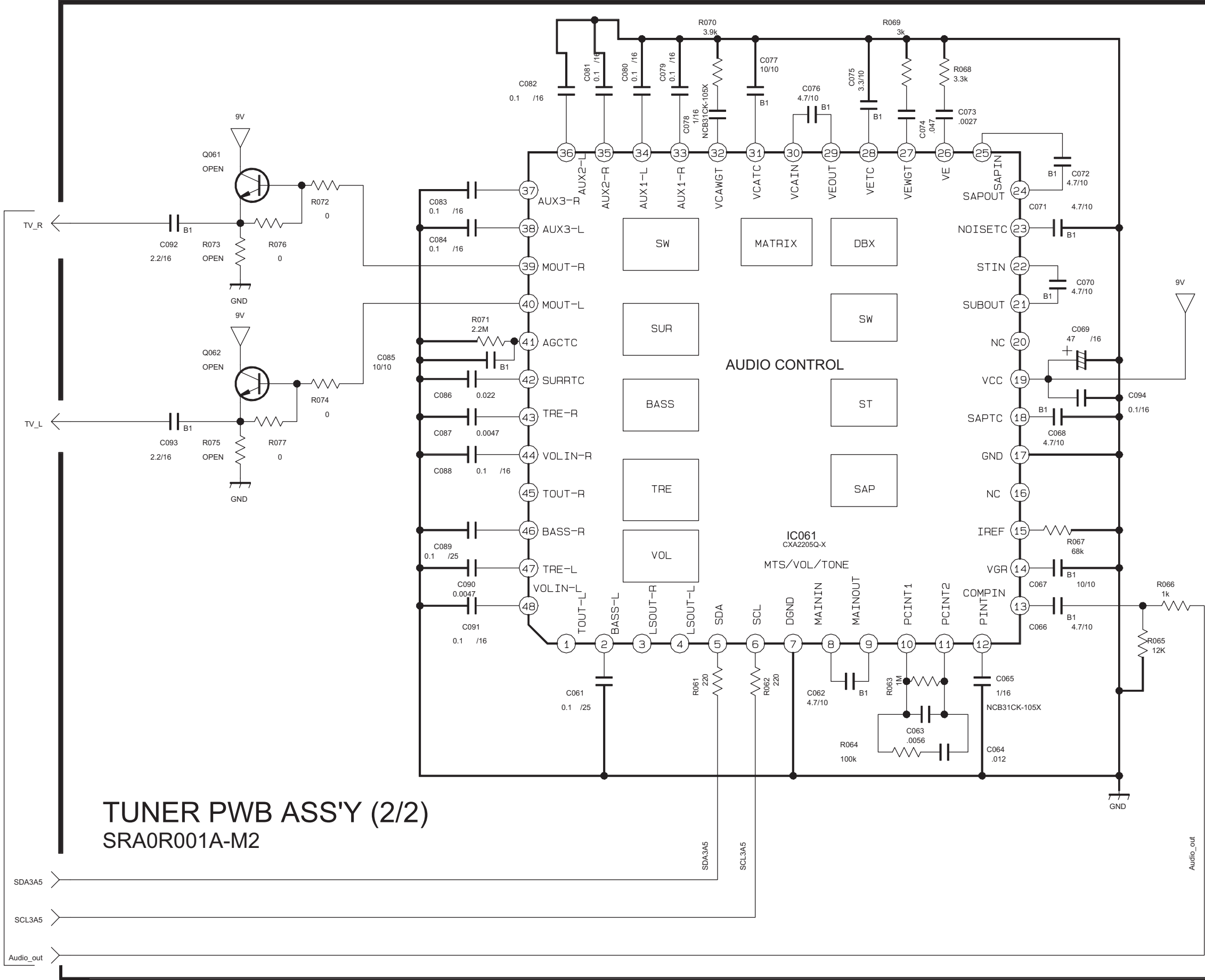


BLOCK DIAGRAM

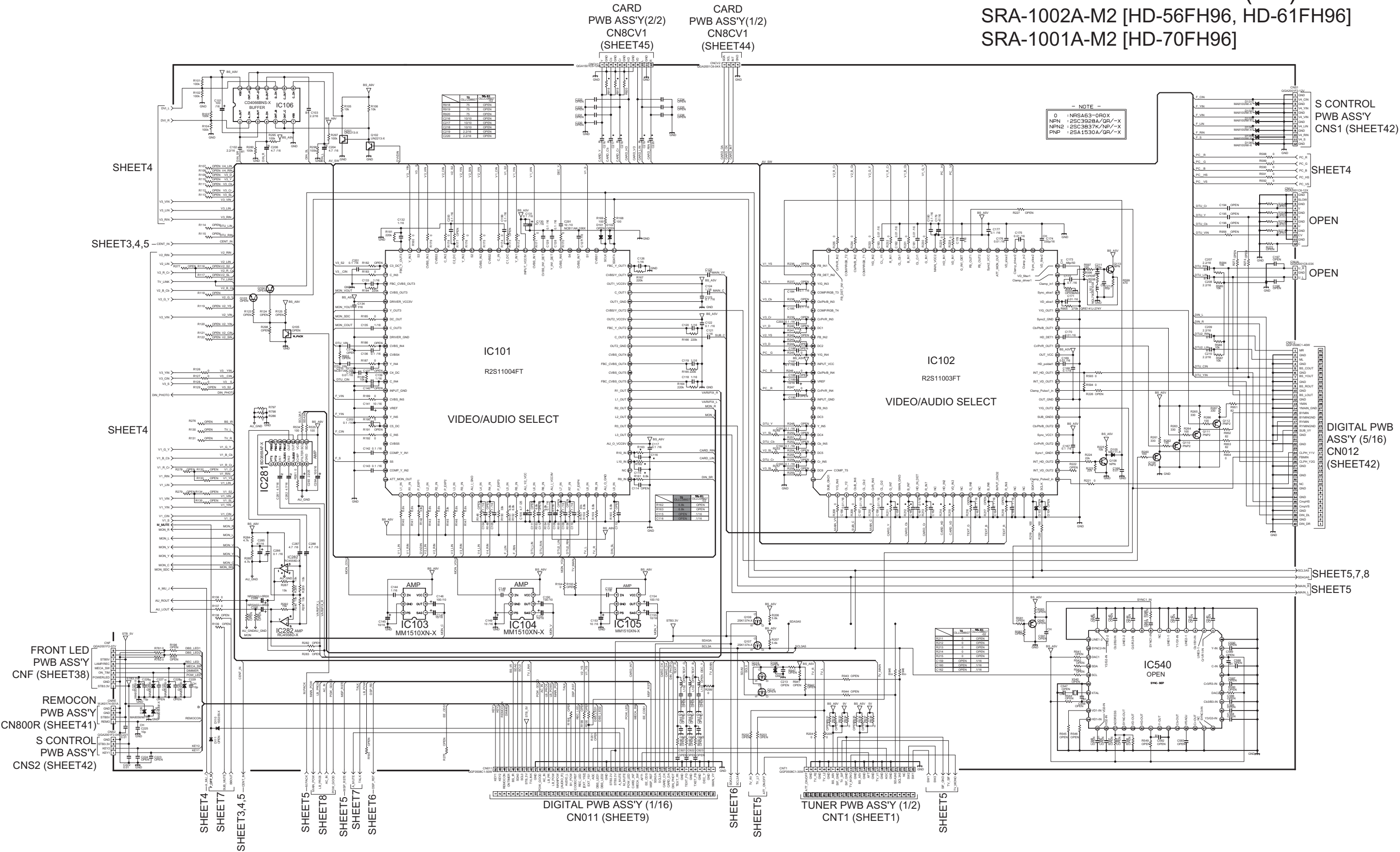


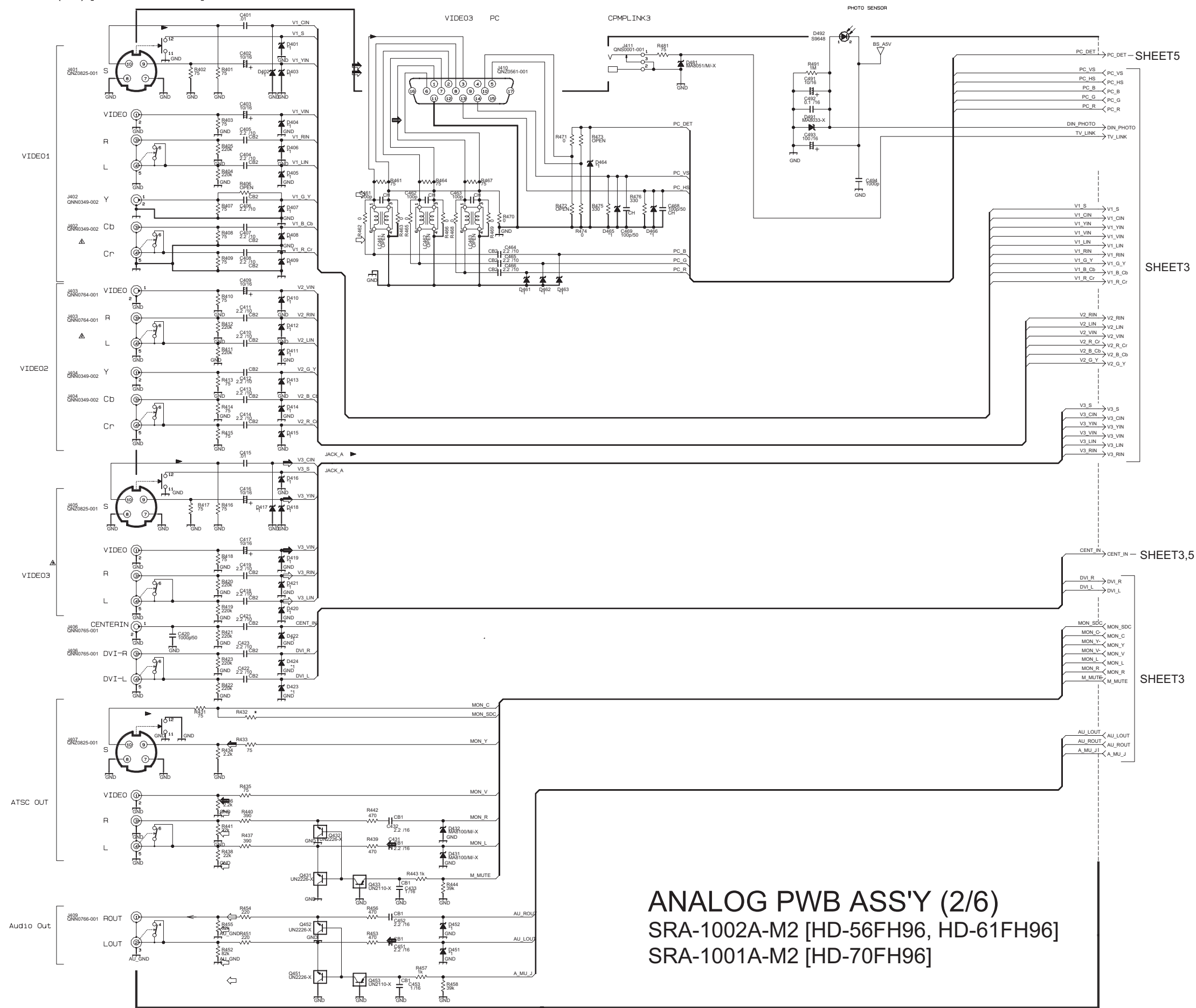
CIRCUIT DIAGRAMS
TUNER PWB CIRCUIT DIAGRAM (1/2) SHEET1



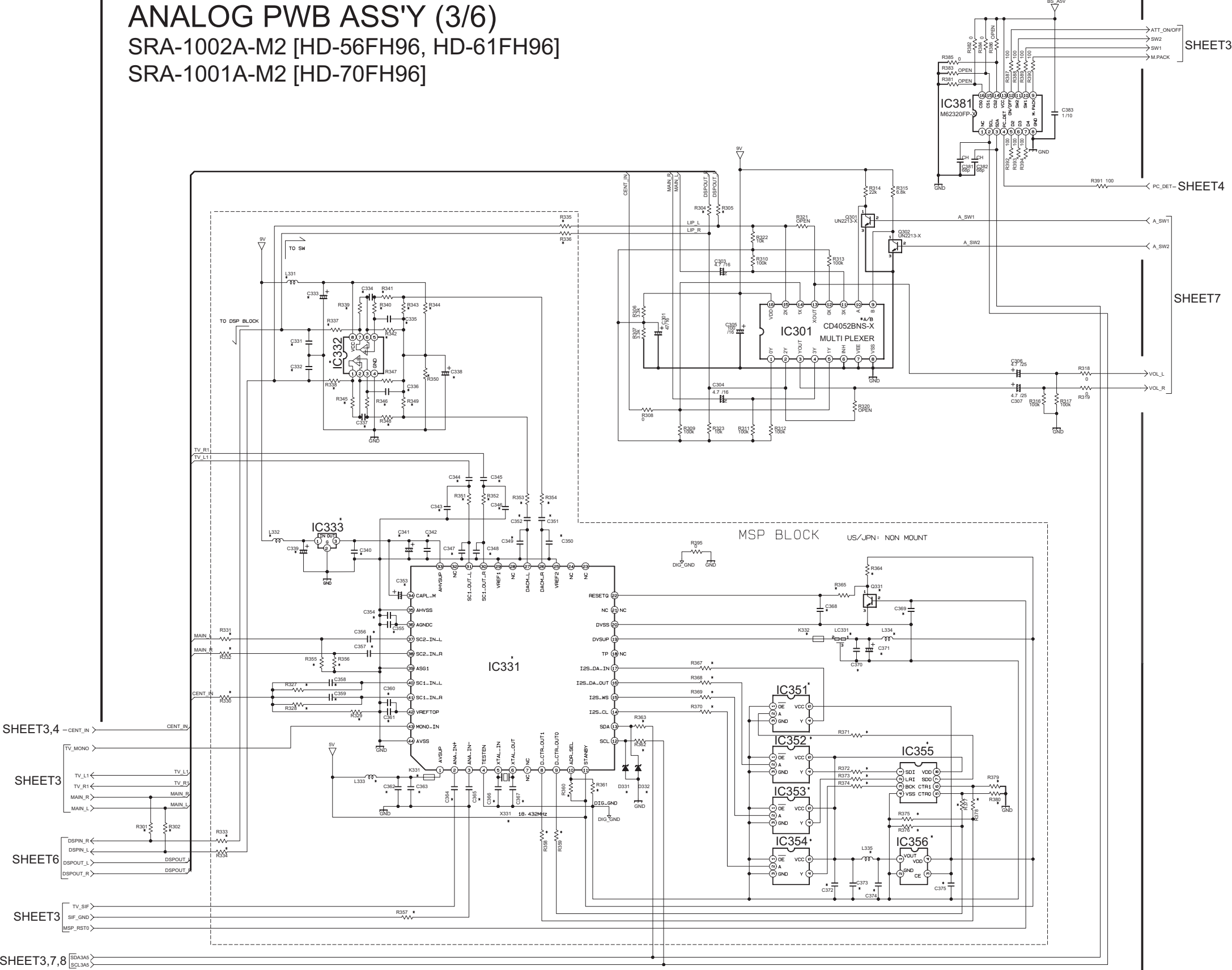


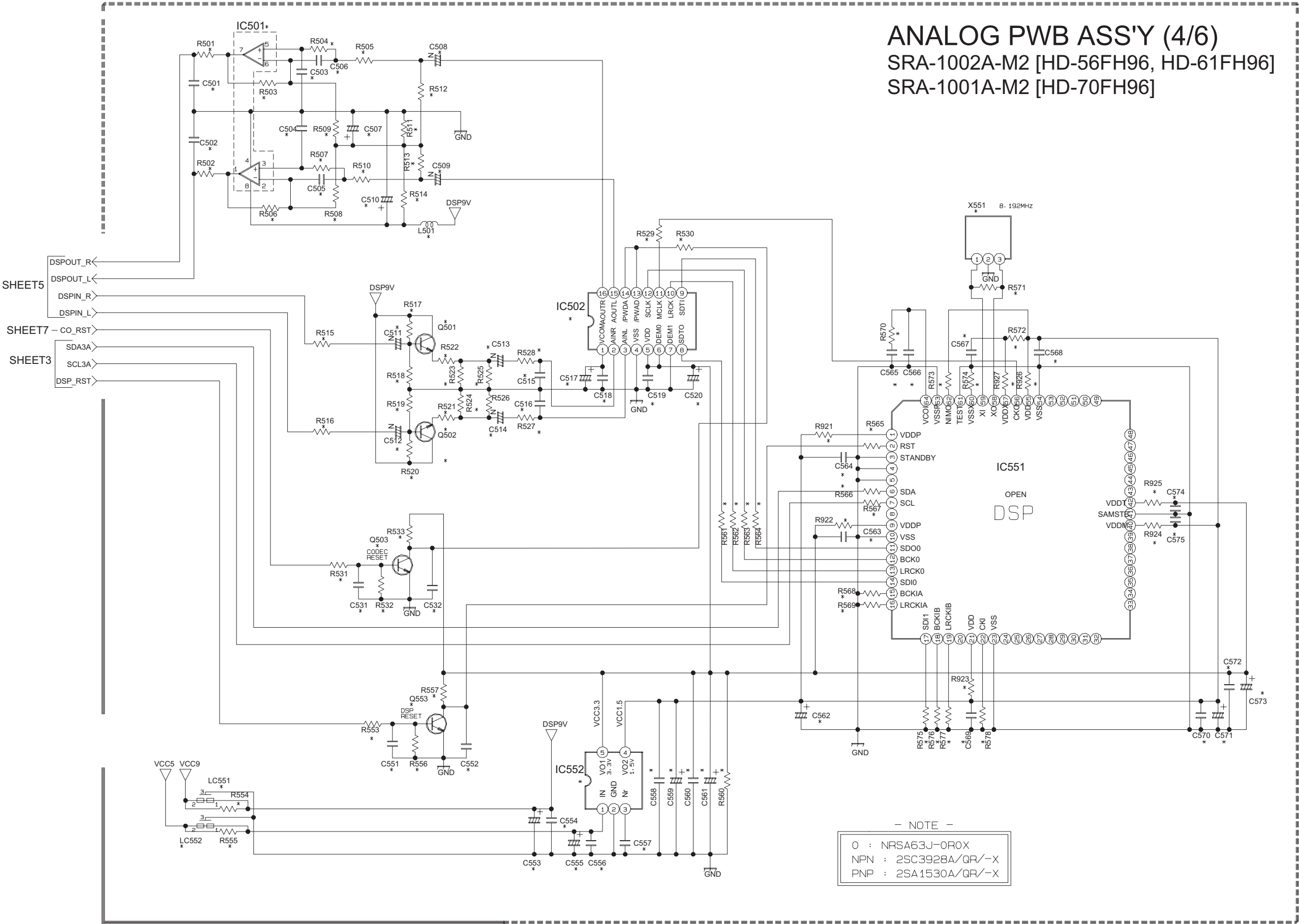
ANALOG PWB ASS'Y (1/6)
SRA-1002A-M2 [HD-56FH96, HD-61FH96]
SRA-1001A-M2 [HD-70FH96]



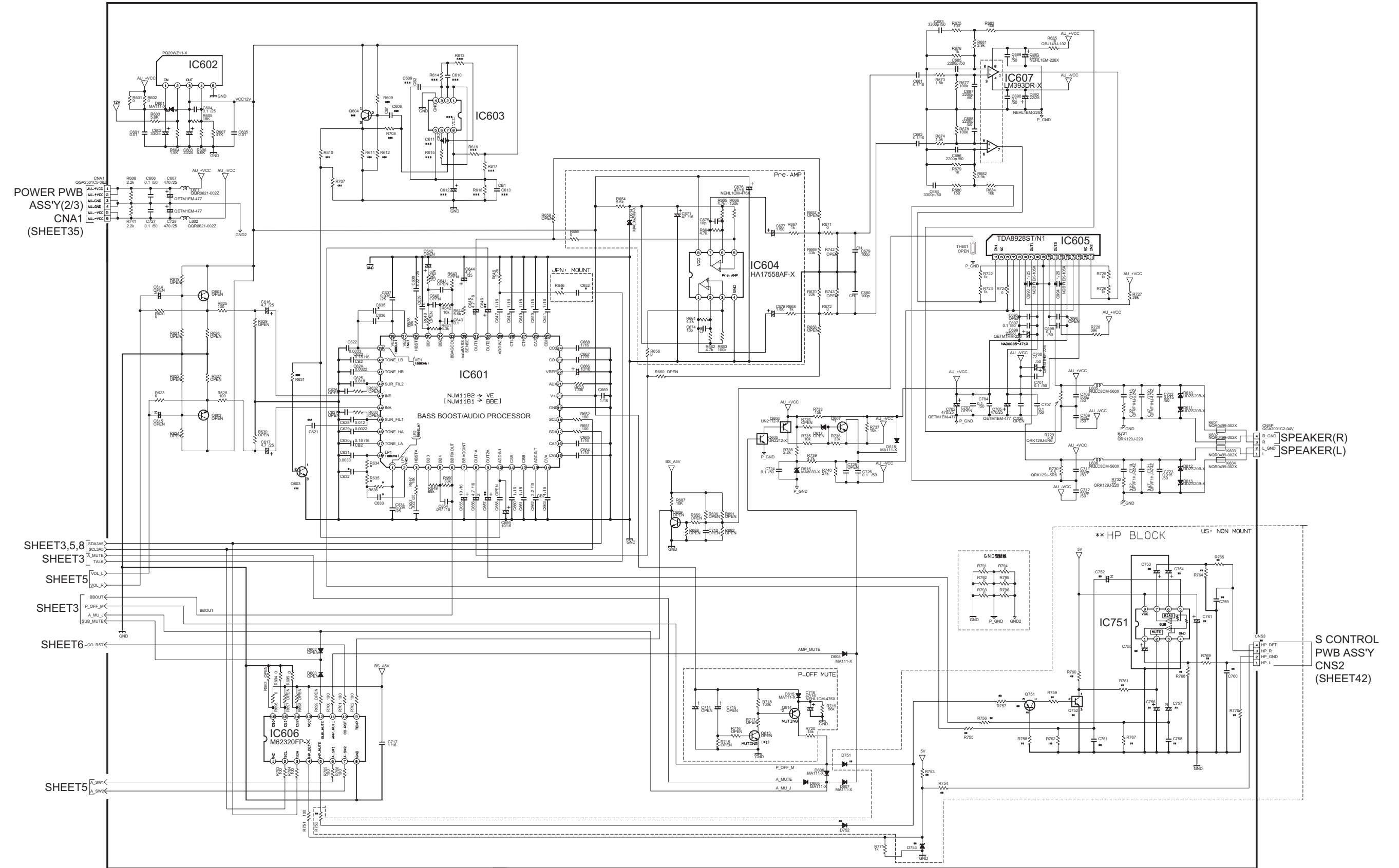


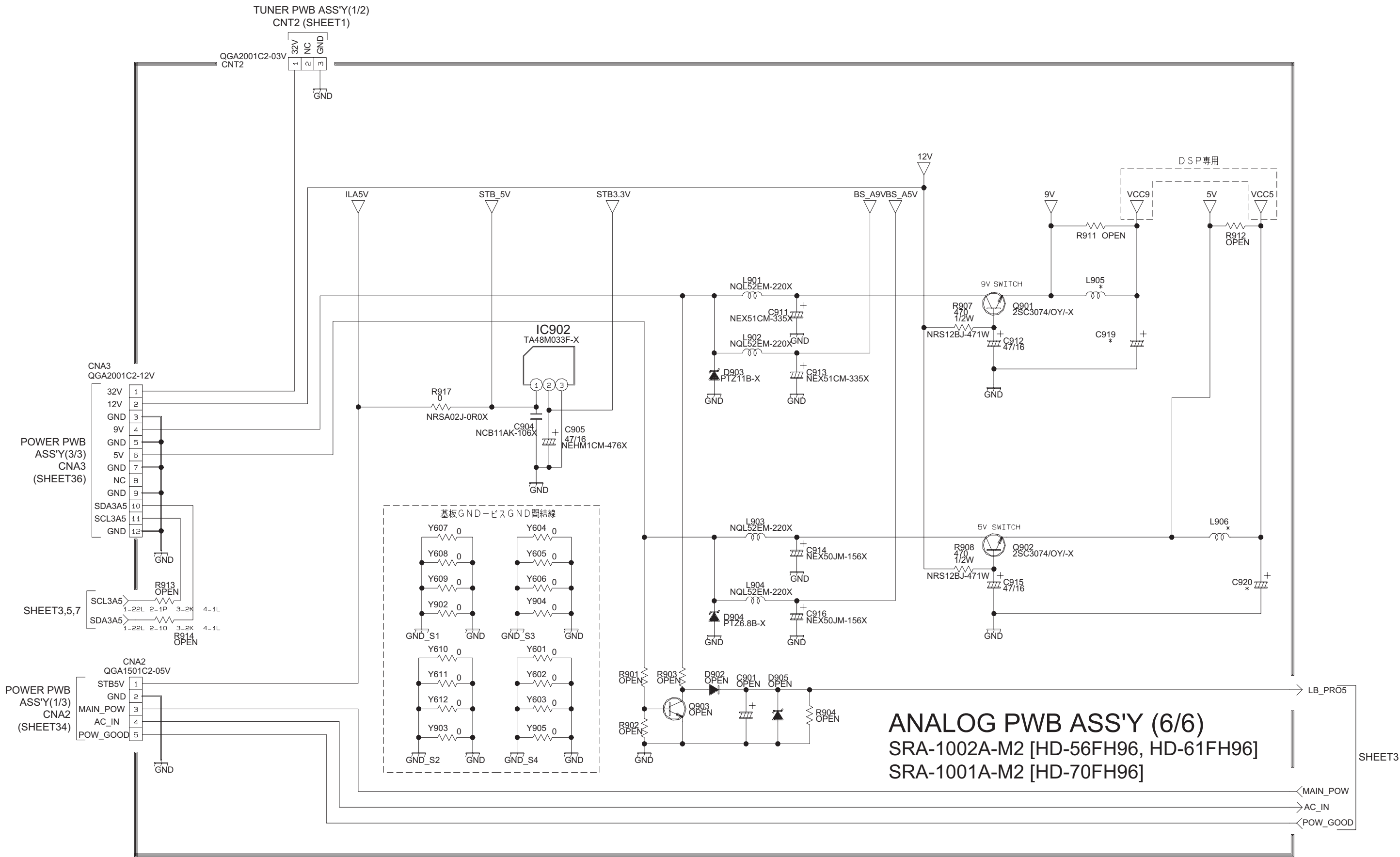
ANALOG PWB ASS'Y (2/6)
SRA-1002A-M2 [HD-56FH96, HD-61FH96]
SRA-1001A-M2 [HD-70FH96]

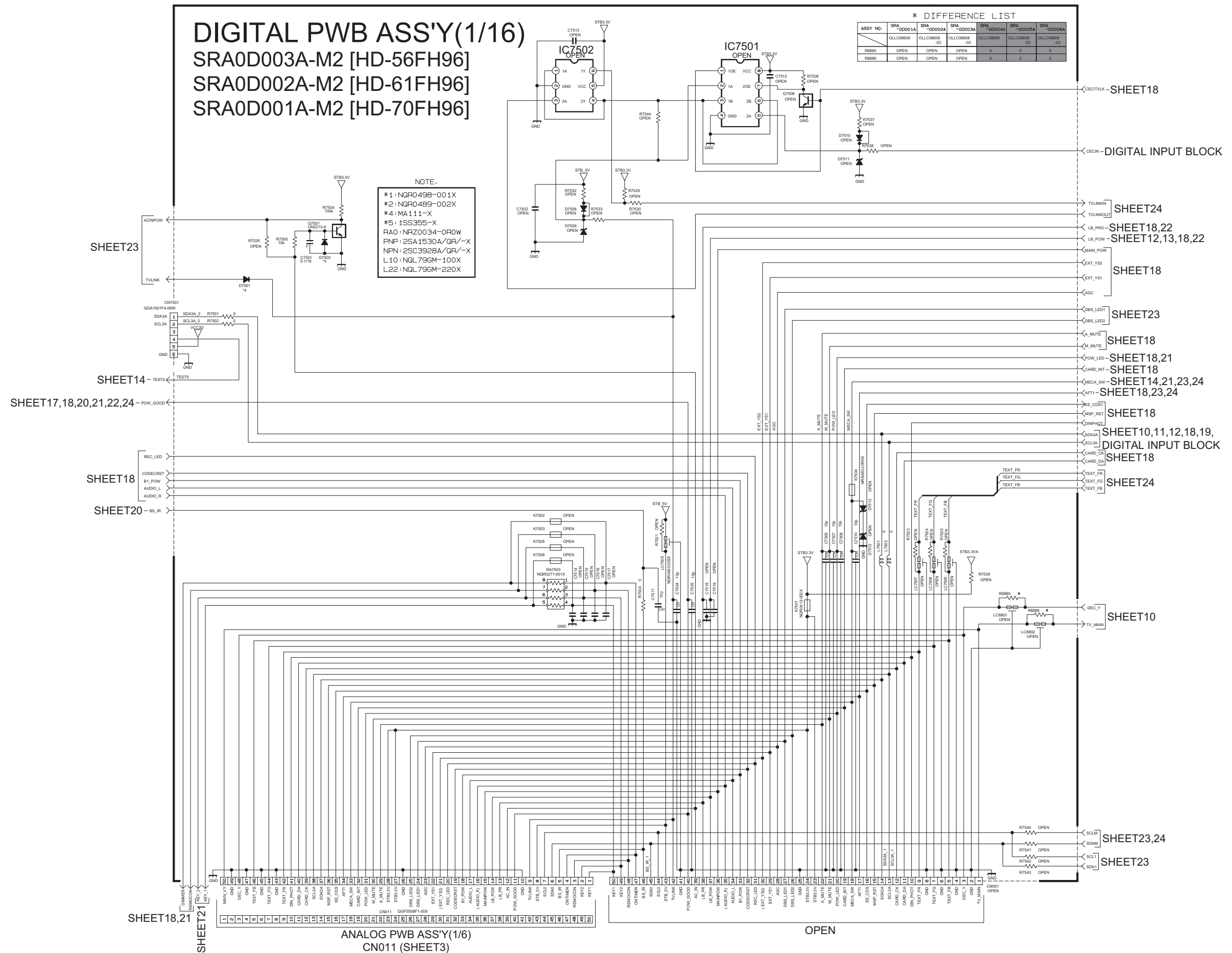




ANALOG PWB ASS'Y (5/6)
SRA-1002A-M2 [HD-56FH96, HD-61FH96]
SRA-1001A-M2 [HD-70FH96]









SHEET9 -DEC_Y

DIGITAL PWB ASS'Y(2/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]

NOTE.

*1:NQL0413-003X
*2:NQL092K-100X
*3:NQL092K-2R2X
*4:NQL092K-6R8X
*5:MA111-X
LC1:NQR0470-001X
LC2:NQR0470-007X
LC3:NQR0313-009X
PNP:2SA1530A/QR/-X
NPN:2SC3928A/QR/-X

[illegible]

SDA3A SHEET9,11,12,18,19,21
 SCL3A DIGITAL INPUT BLOCK

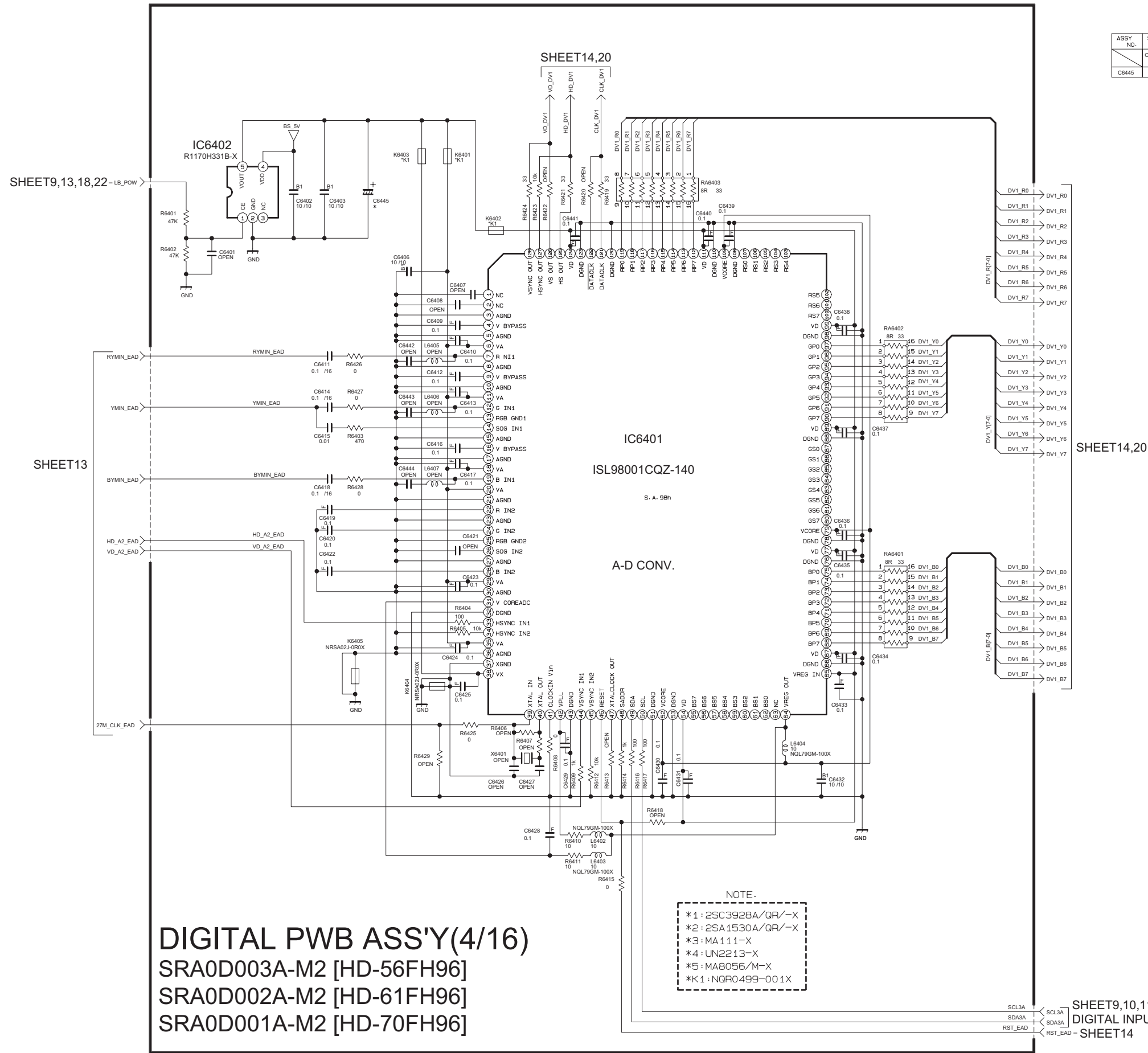
SHEET13 -30VC_V

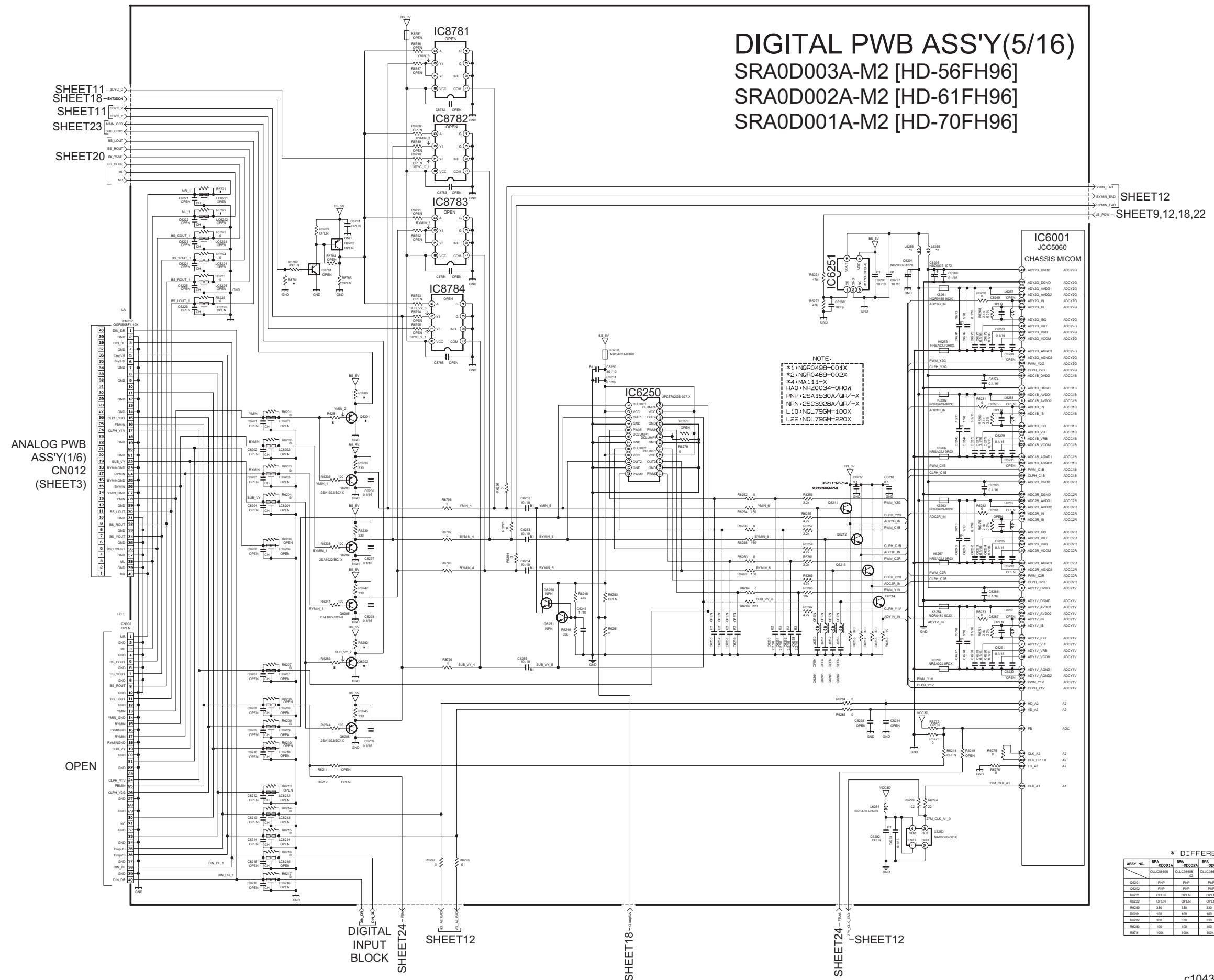
DIGITAL
PWB ASS'Y(3/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]

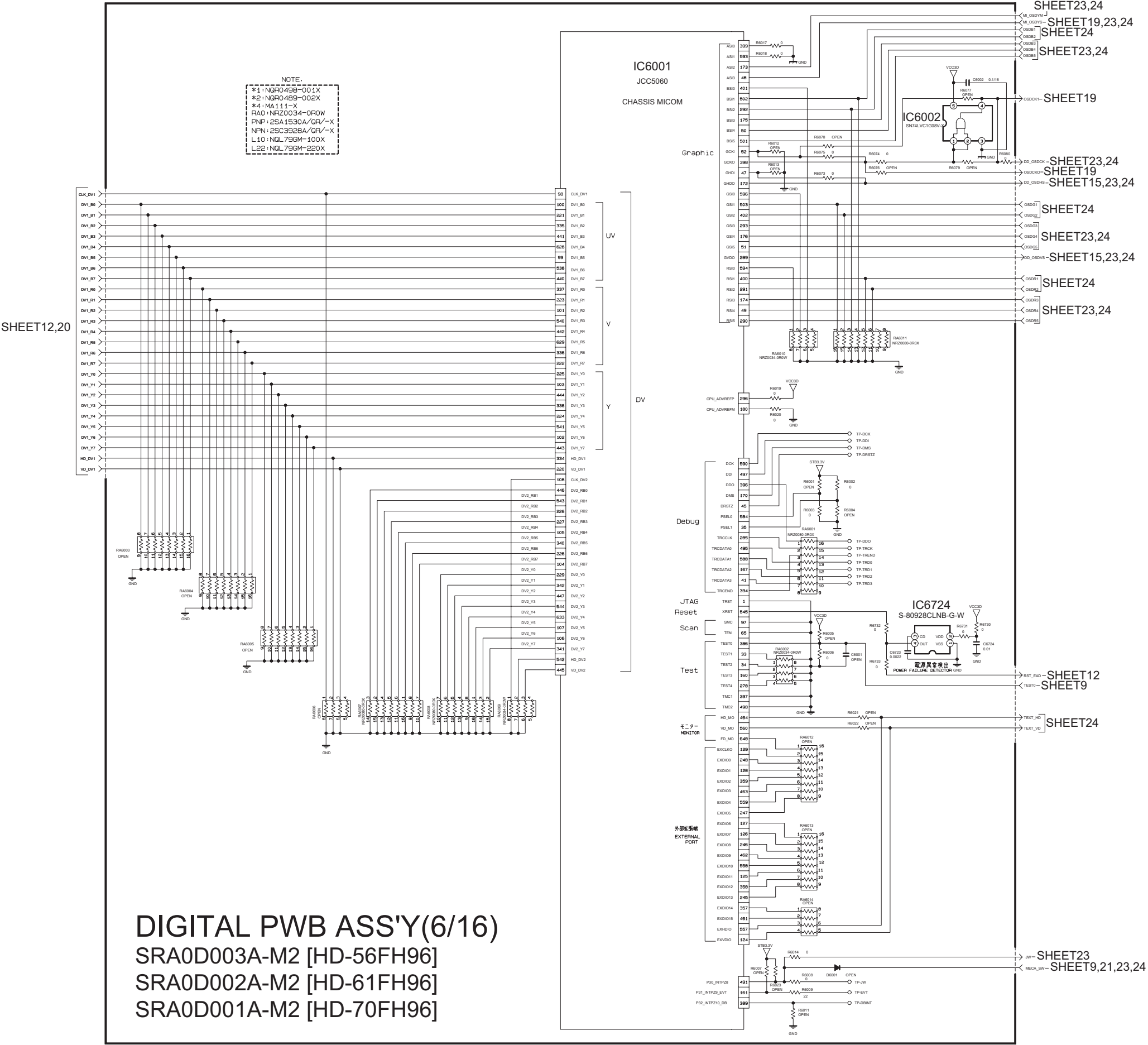
SHEET13

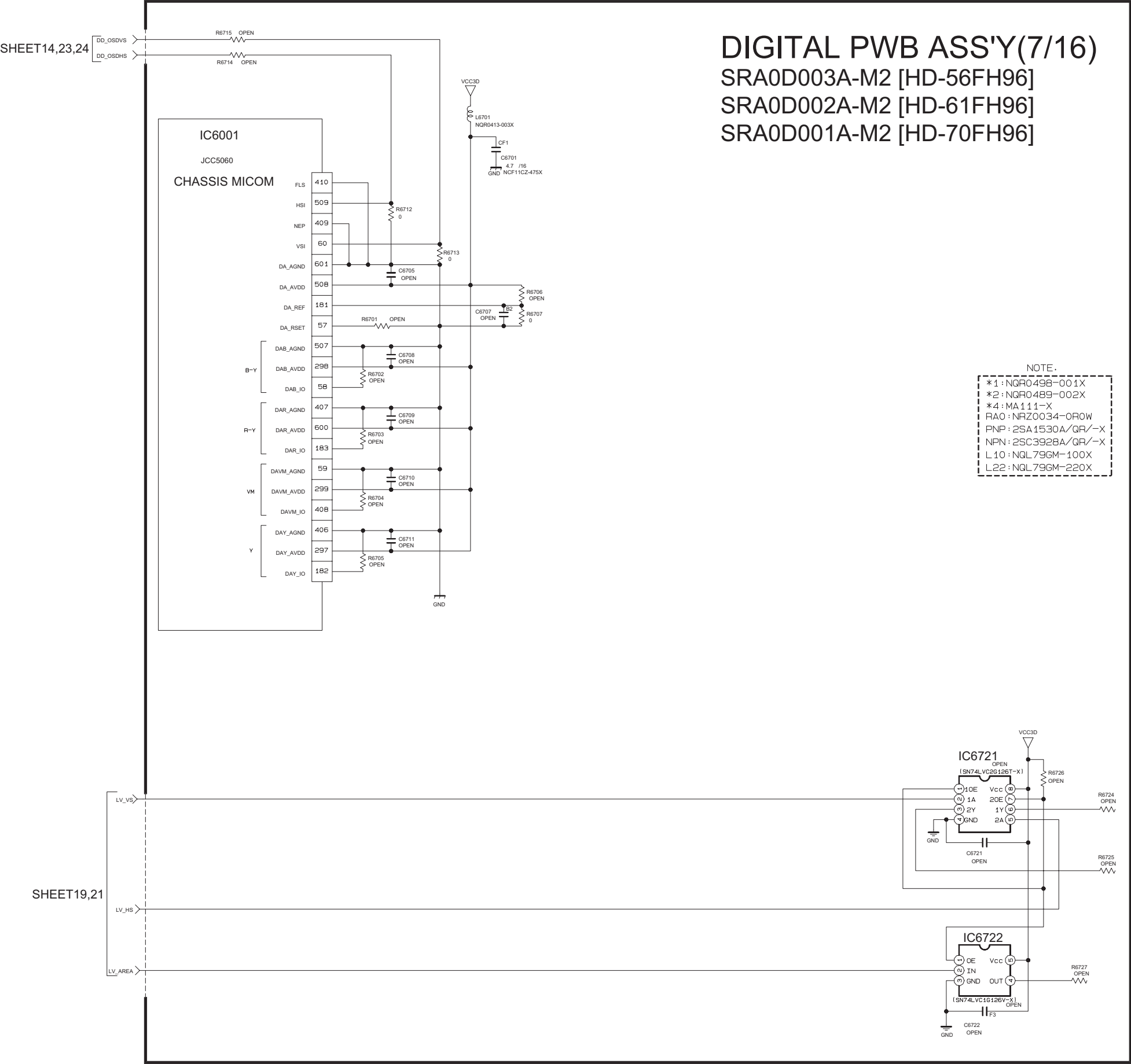
SHEET9,10,12,18,19,21
DIGITAL INPUT BLOCK

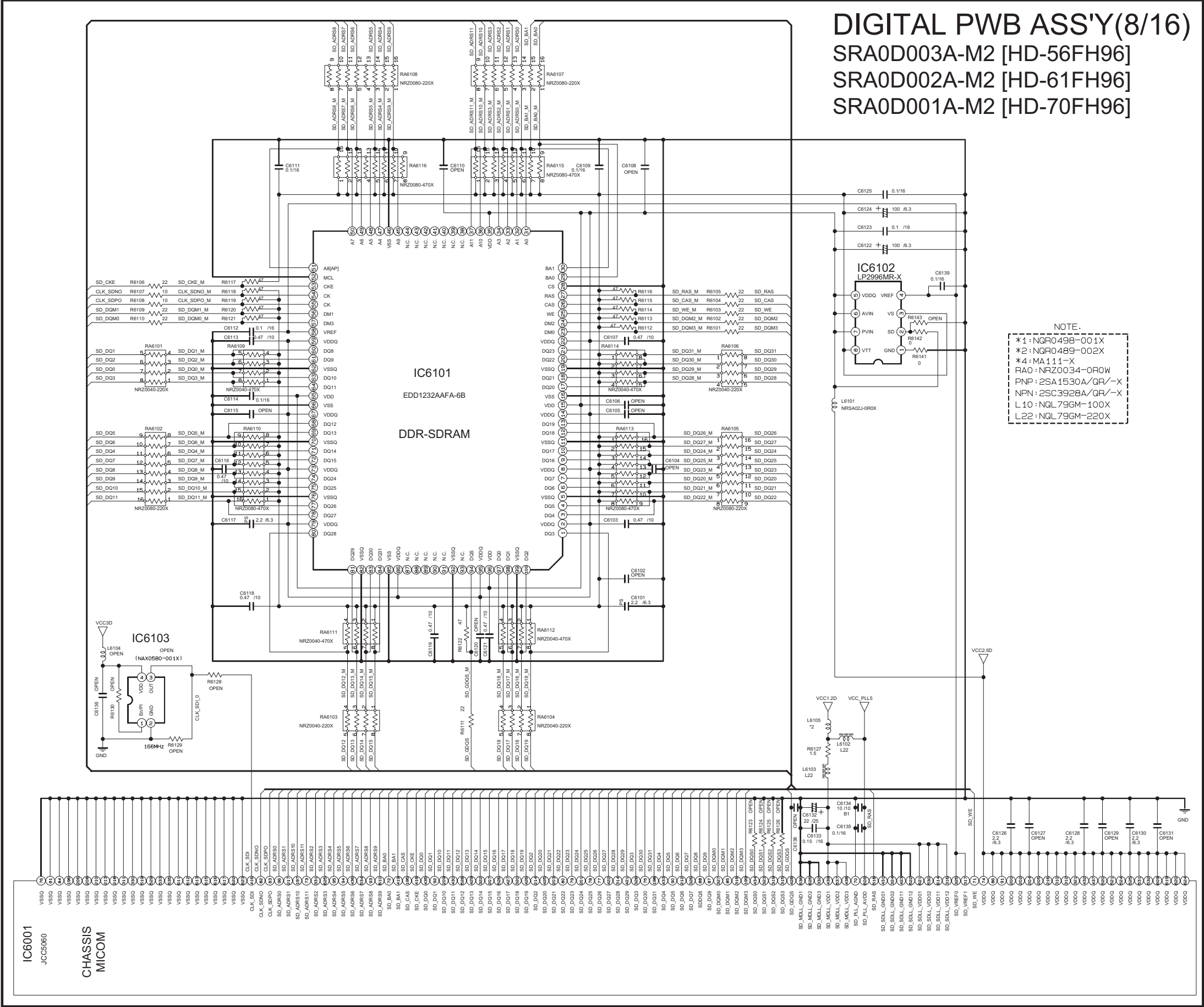
- NOTE.
- *1: NQR0498-001X
 - *2: NQR0489-002X
 - *3: BAV99L-X
 - *4: MA111-X
 - *5: NQL0914M-4R7X
 - *6: NQL092K-4R7X
 - *7: 2SK1228-X
 - *8: CHP302-1608T
 - *9: NAF0013-001X
 - *21: UN2113-X
 - *22: UN2213-X
 - L10: NQL79GM-100X
 - L22: NQL79GM-220X
 - RA0: NRZ0034-0R0W

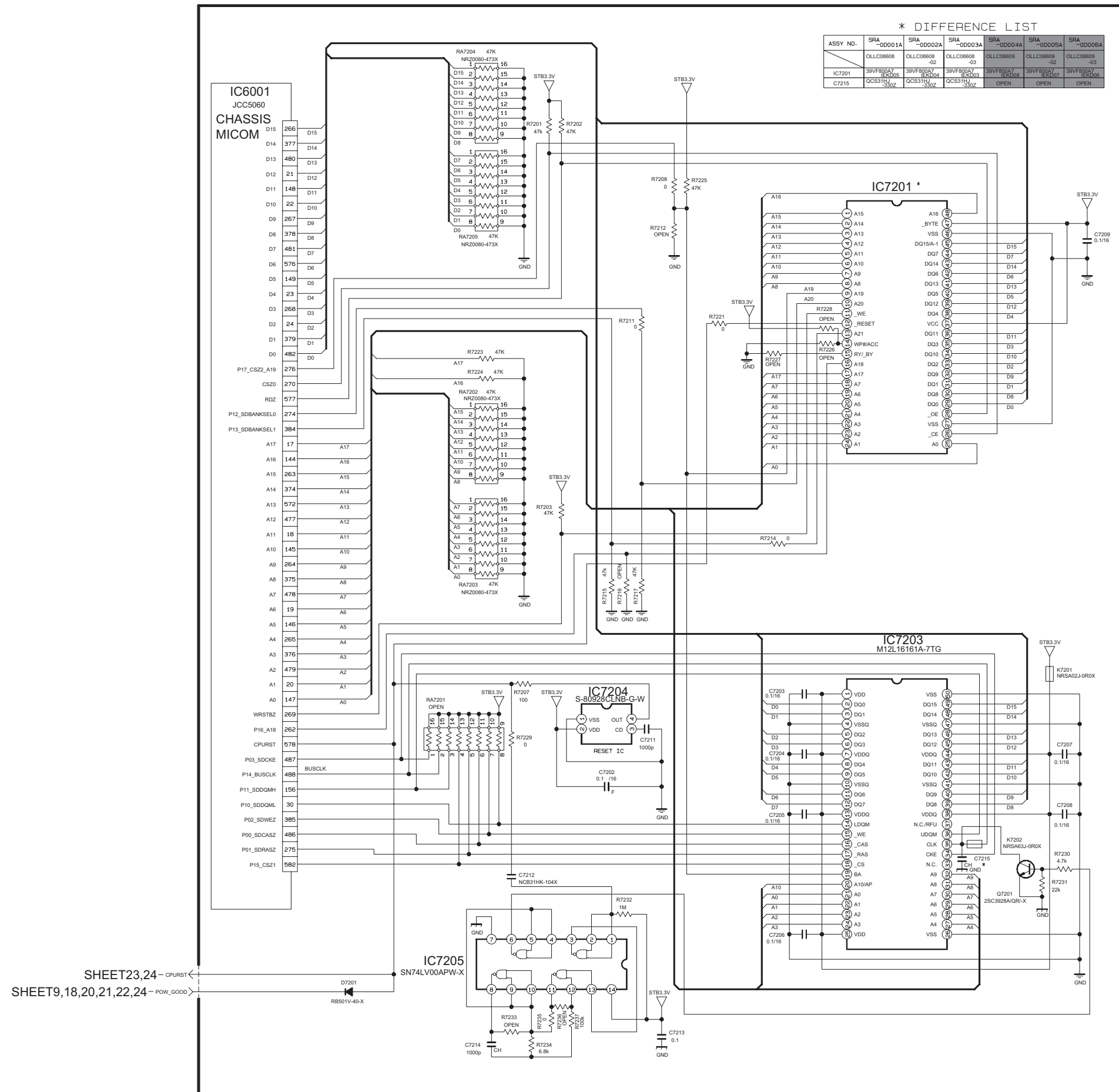




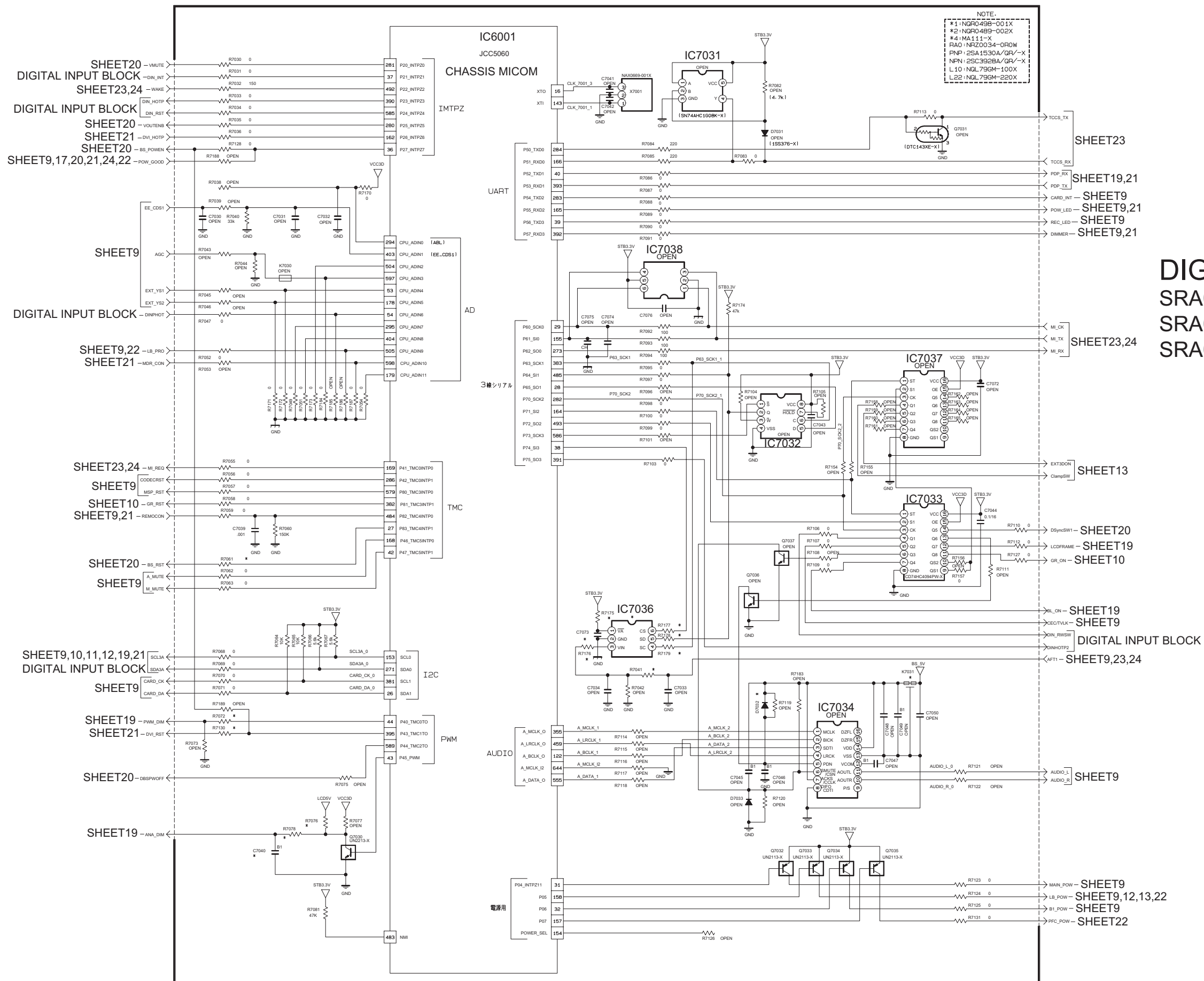






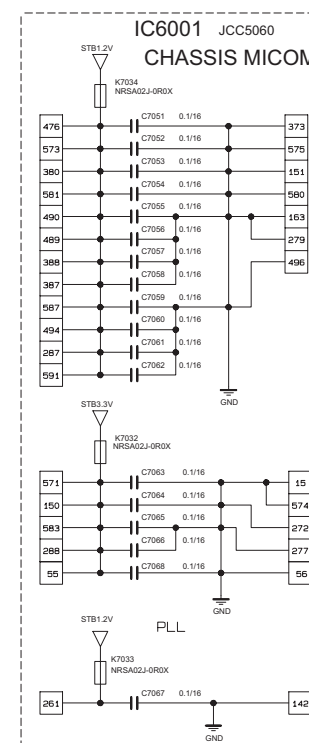


DIGITAL PWB ASS'Y(9/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]

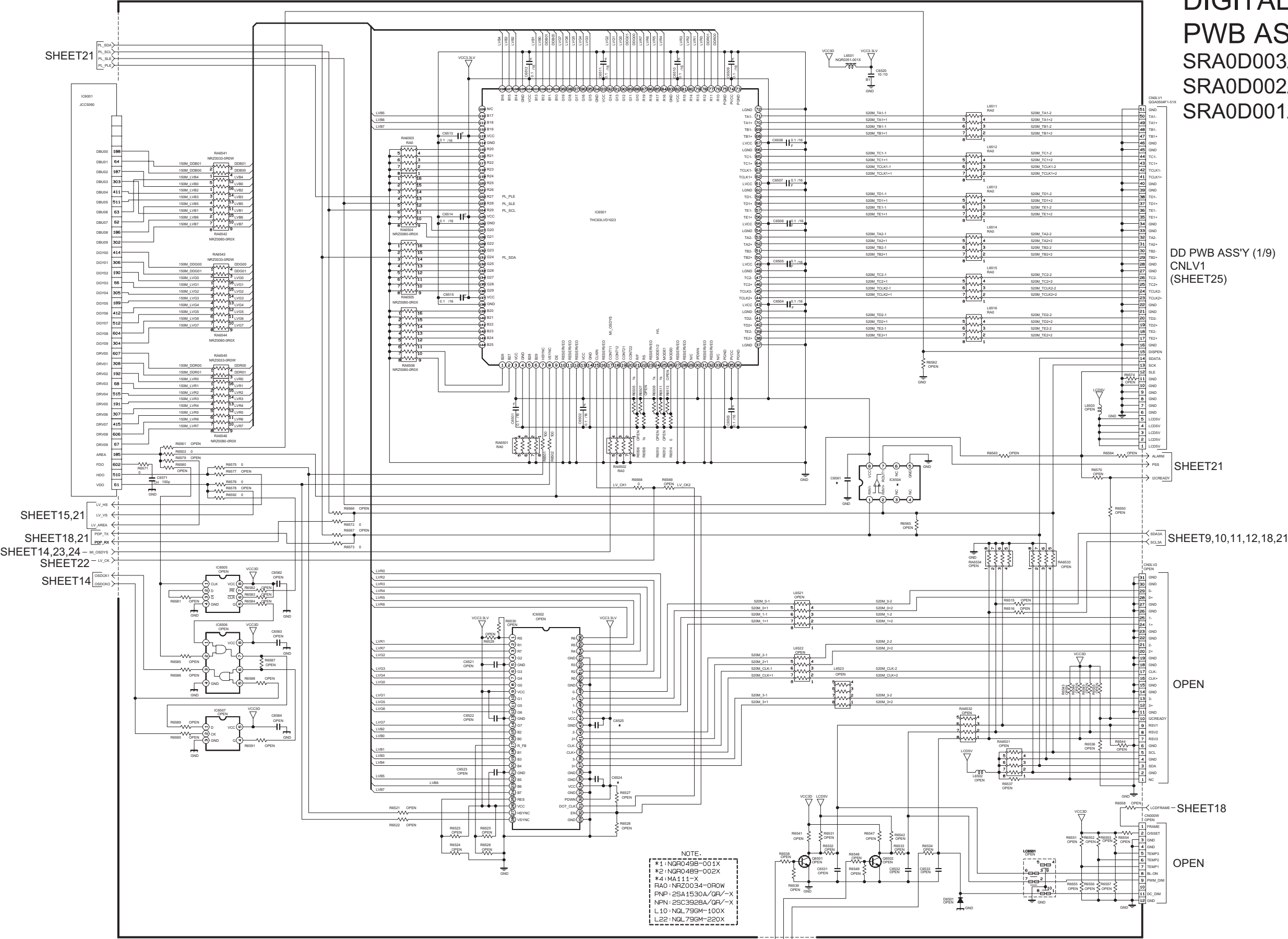


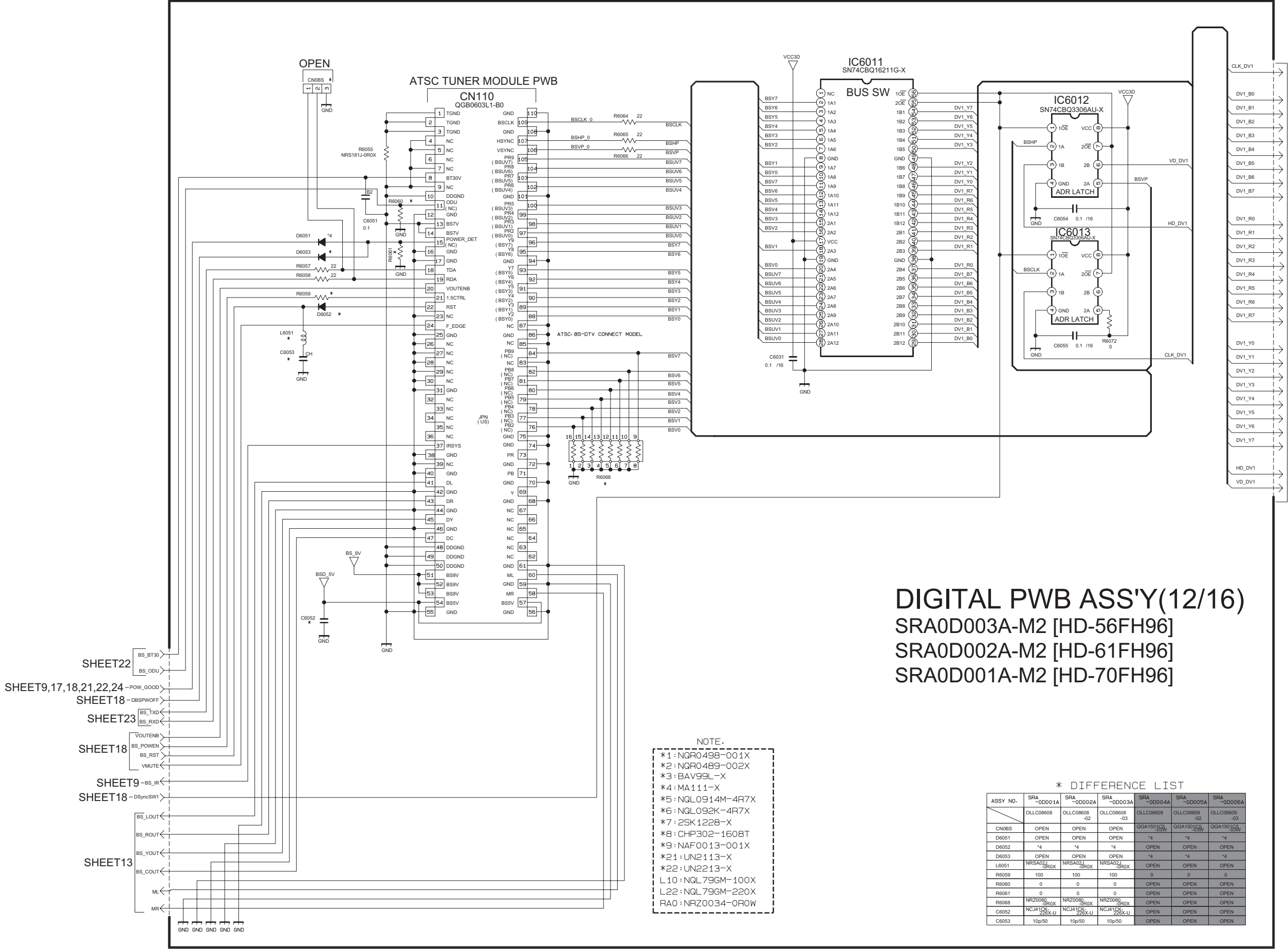
* DIFFERENCE LIST							
ASSY NO.	SRA 000001A	SRA 000002A	SRA 000003A	SRA 000004A	SRA 000005A	SRA 000006A	
	OLLC08608	OLLC08608-02	OLLC08608-03	OLLC08609	OLLC08609-02	OLLC08609-03	
	ADCB018	ADCB018-X	ADCB018	OLLC08609			
IC7006	OPEN	OPEN	OPEN	OPEN			
D7032	OPEN	OPEN	OPEN	'4	'4	'4	
KT031	OPEN	OPEN	OPEN	NOR64/07X	NOR64/07X	NOR64/07X	
R7041	22k	22k	22k	OPEN	OPEN	OPEN	
R7061	0	0	0	OPEN	OPEN	OPEN	
R7175	0	0	0	OPEN	OPEN	OPEN	
R7176	0	0	0	OPEN	OPEN	OPEN	
R7177	0	0	0	OPEN	OPEN	OPEN	
R7178	0	0	0	OPEN	OPEN	OPEN	
R7179	0	0	0	OPEN	OPEN	OPEN	
C7073	0.116	0.116	0.116	OPEN	OPEN	OPEN	
C240	OPEN	OPEN	OPEN	10/10	10/10	10/10	
R7072	OPEN	OPEN	OPEN	0	0	0	
R7076	OPEN	OPEN	OPEN	1k	1k	1k	
R7078	OPEN	OPEN	OPEN	1k	1k	1k	
R7130	OPEN	OPEN	OPEN	0	0	0	

DIGITAL PWB ASS'Y(10/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]



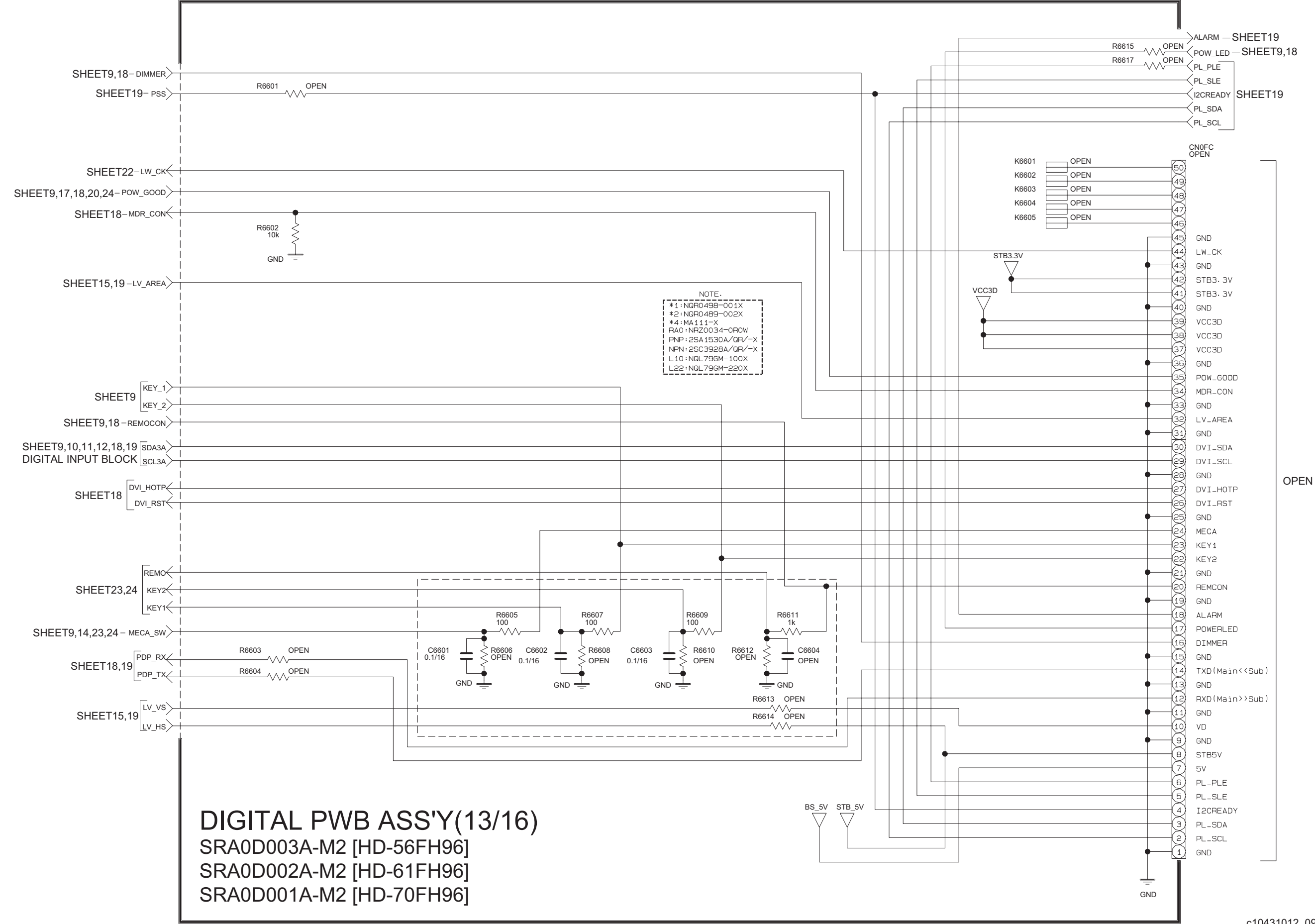
DIGITAL
PWB ASS'Y(11/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]





SHEET 12, 14

DIGITAL PWB ASS'Y(12/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]



DIGITAL PWB ASS'Y(14/16)

SRA0D003A-M2 [HD-56FH96]

SRA0D002A-M2 [HD-61FH96]

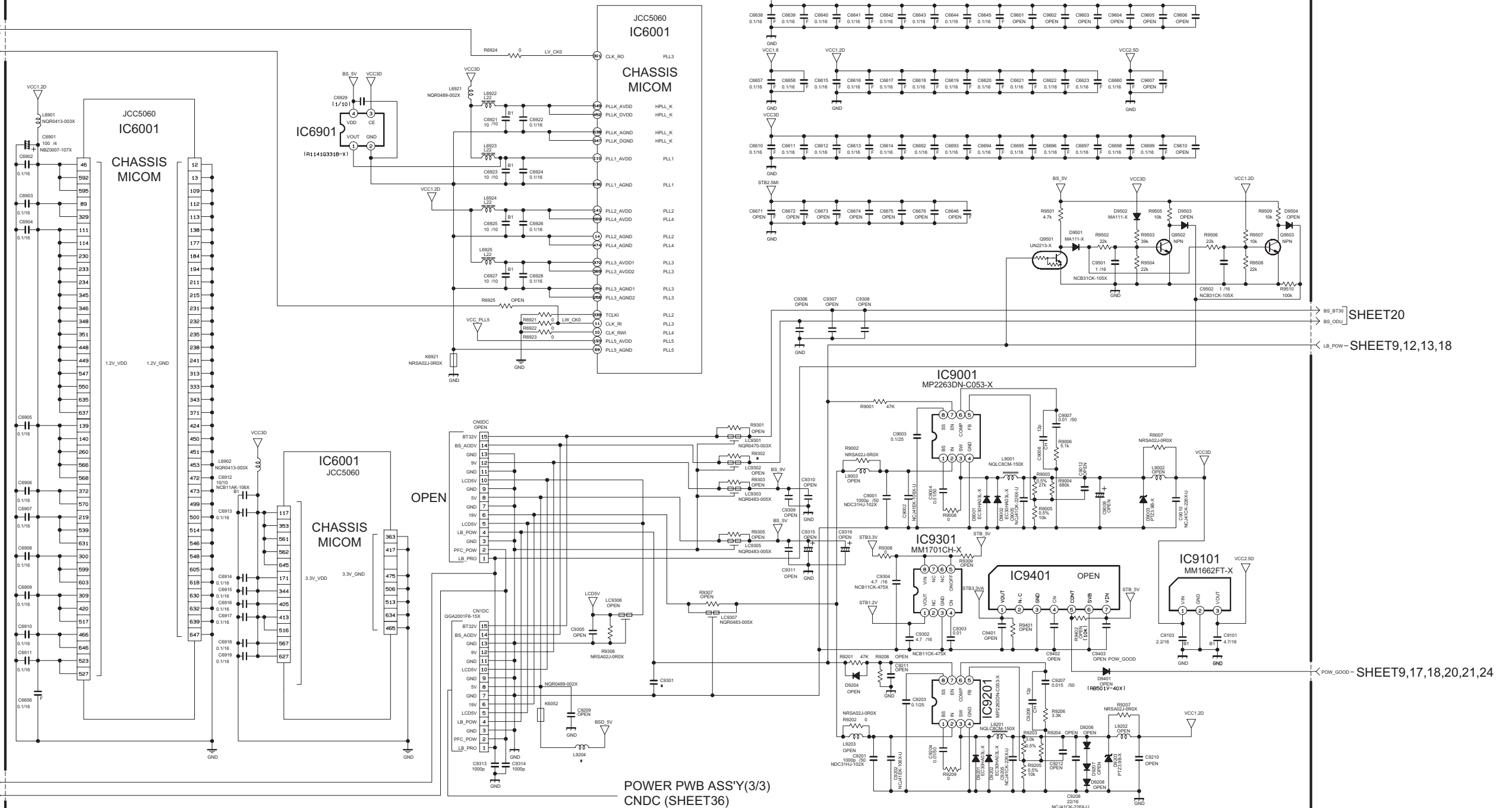
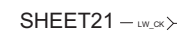
SRA0D001A-M2 [HD-70FH96]

* DIFFERENCE LIST

ASSY NO.	SRA _00001A	SRA _00002A	SRA _00003A	SRA _00004A	SRA _00005A	SRA _00006A
	OLLC08608	OLLC08608 ₀₂	OLLC08608 ₀₃	OLLC08609	OLLC08609 ₀₂	OLLC08609 ₀₃
CS301	1000p	1000p	1000p	1000p16	1000p16	1000p16
RS302	OPEN	OPEN	OPEN	NRSA0205 ₀₁	NRSA0205 ₀₂	NRSA0205 ₀₃
L9204	NR050502	NR050502 ₀₂	NR050502 ₀₃	NR050605 ₀₁	NR050605 ₀₂	NR050605 ₀₃

NOTE.

*1:NQR0498-001X
*2:NQR0489-002X
*4:MA111-X
RA0:NRZ0034-0ROW
PNP:2SA1530A/QR/-X
NPN:2SC3928A/QR/-X
L10:NQL79GM-100X
L22:NQL79GM-220X

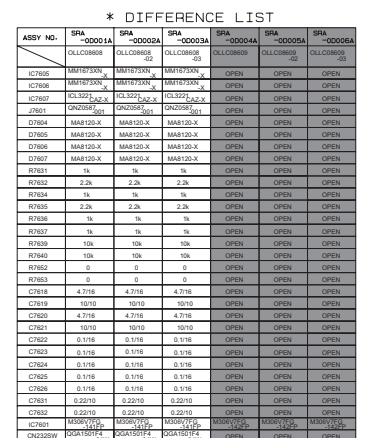


SHEET9,18 — LB_PRO >

SHEET18 — PFC_POW >

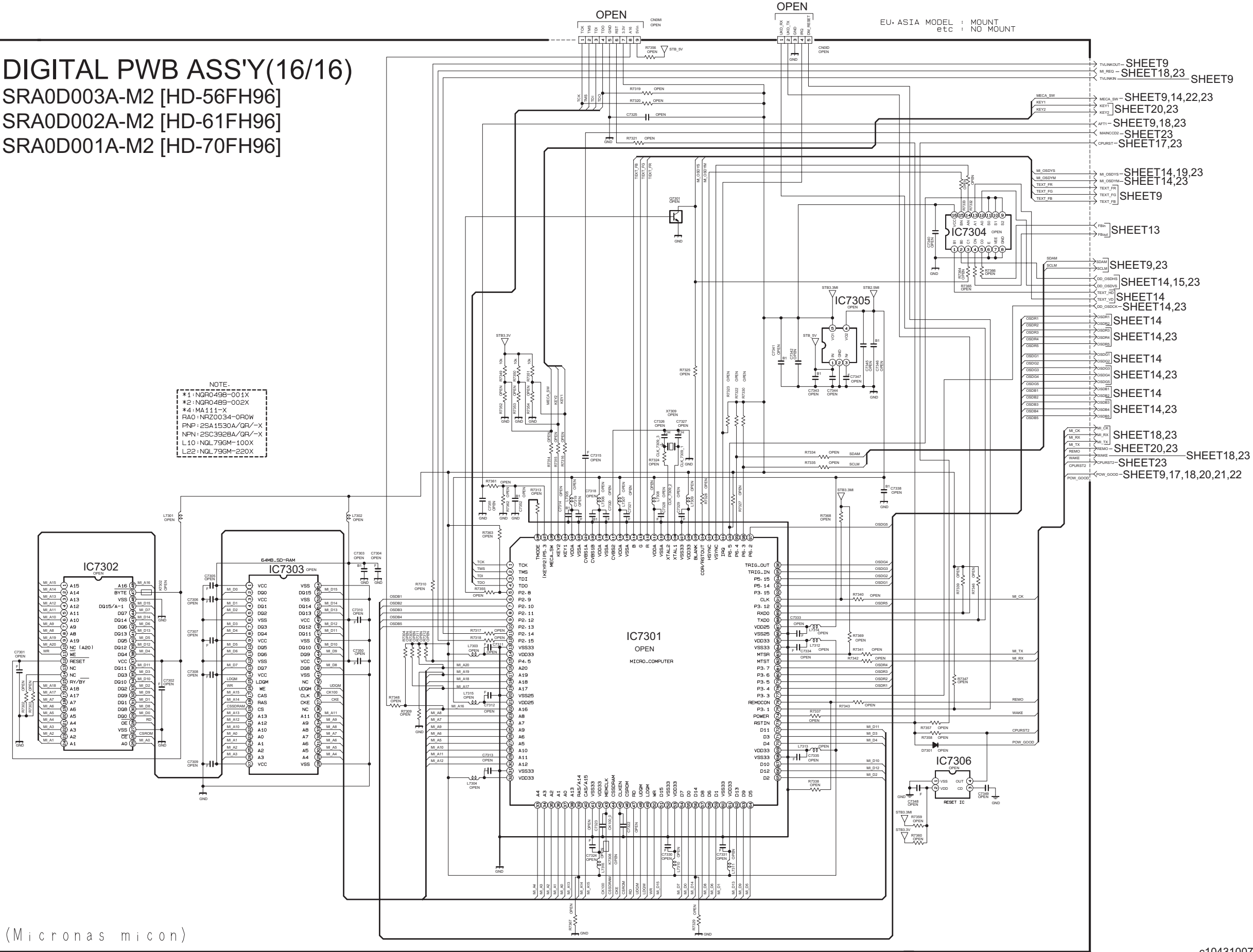
POWER PWB ASS'Y(3/3)
CNDC (SHEET36)

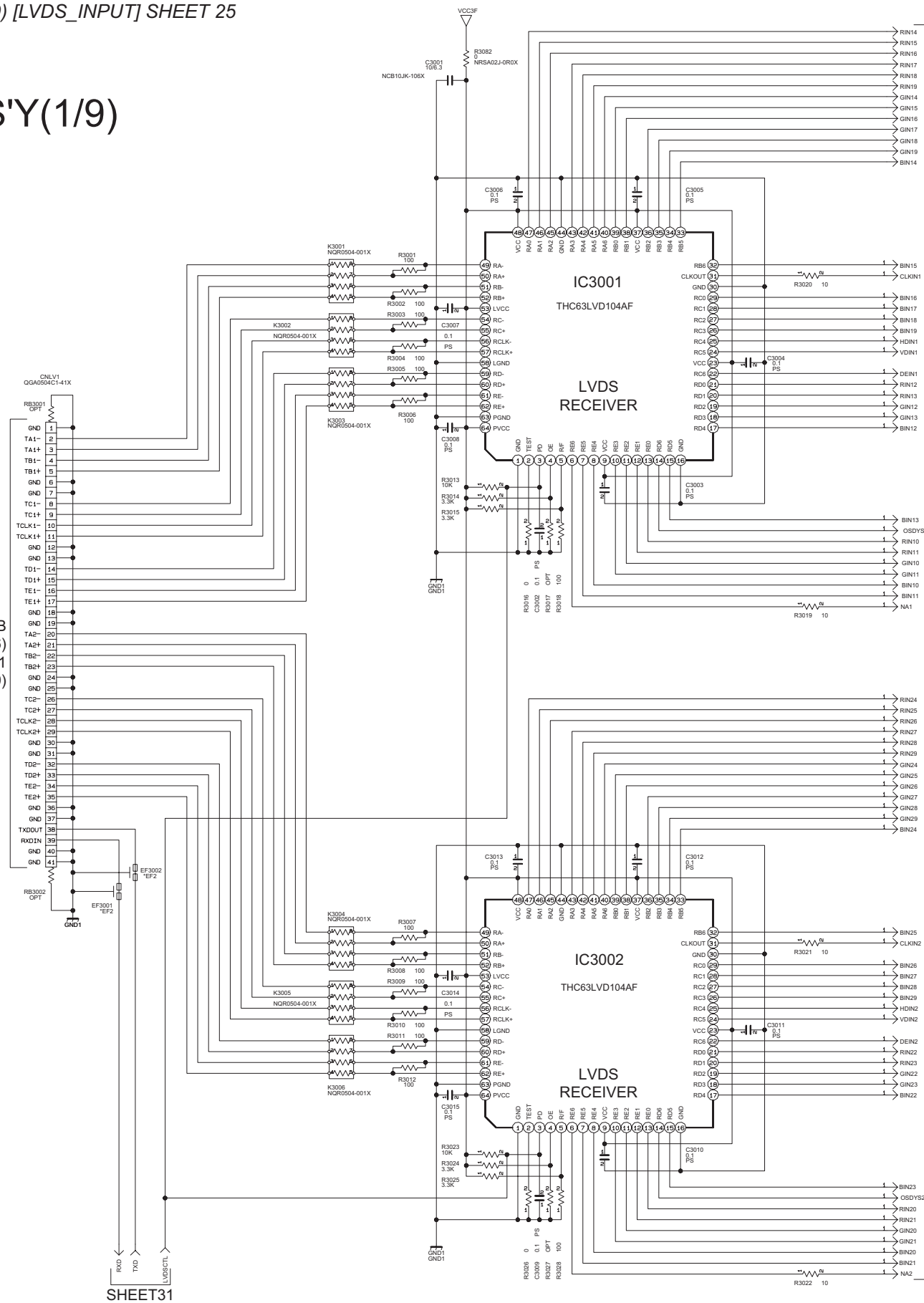
c10431010_0930_10/17_0.0



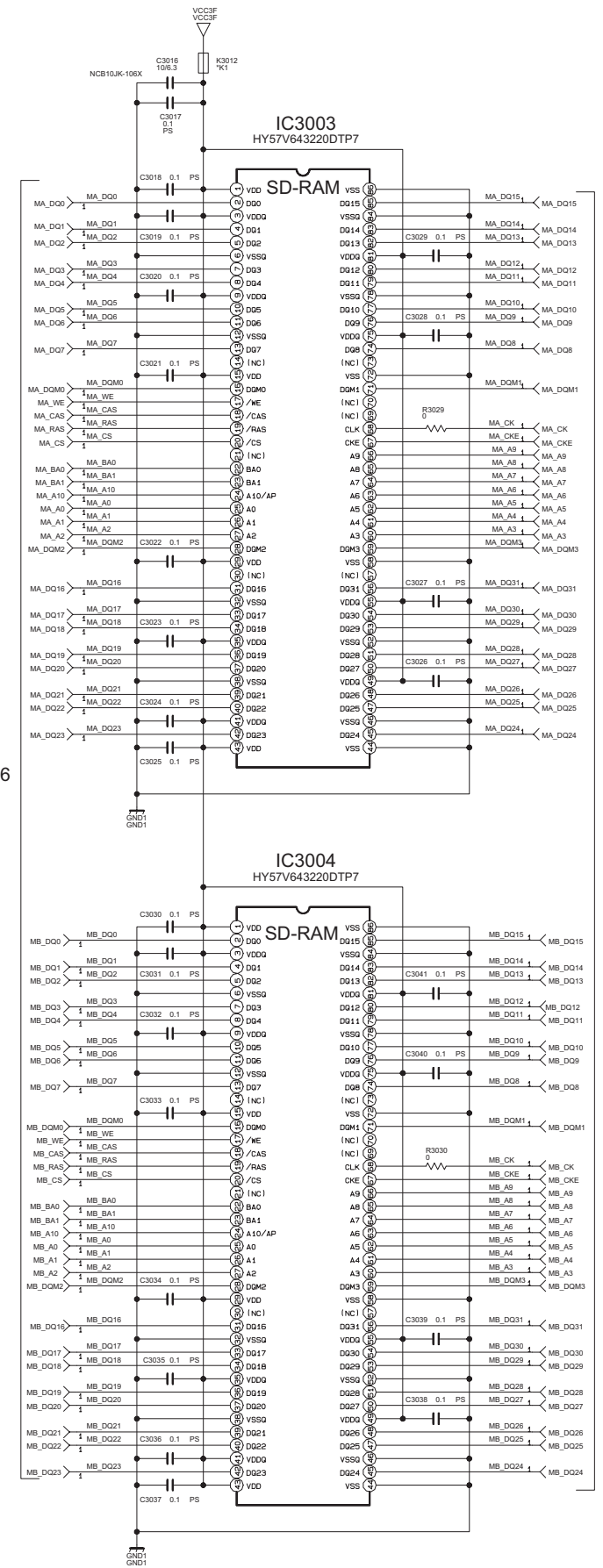
DIGITAL PWB ASS'Y(16/16)
SRA0D003A-M2 [HD-56FH96]
SRA0D002A-M2 [HD-61FH96]
SRA0D001A-M2 [HD-70FH96]

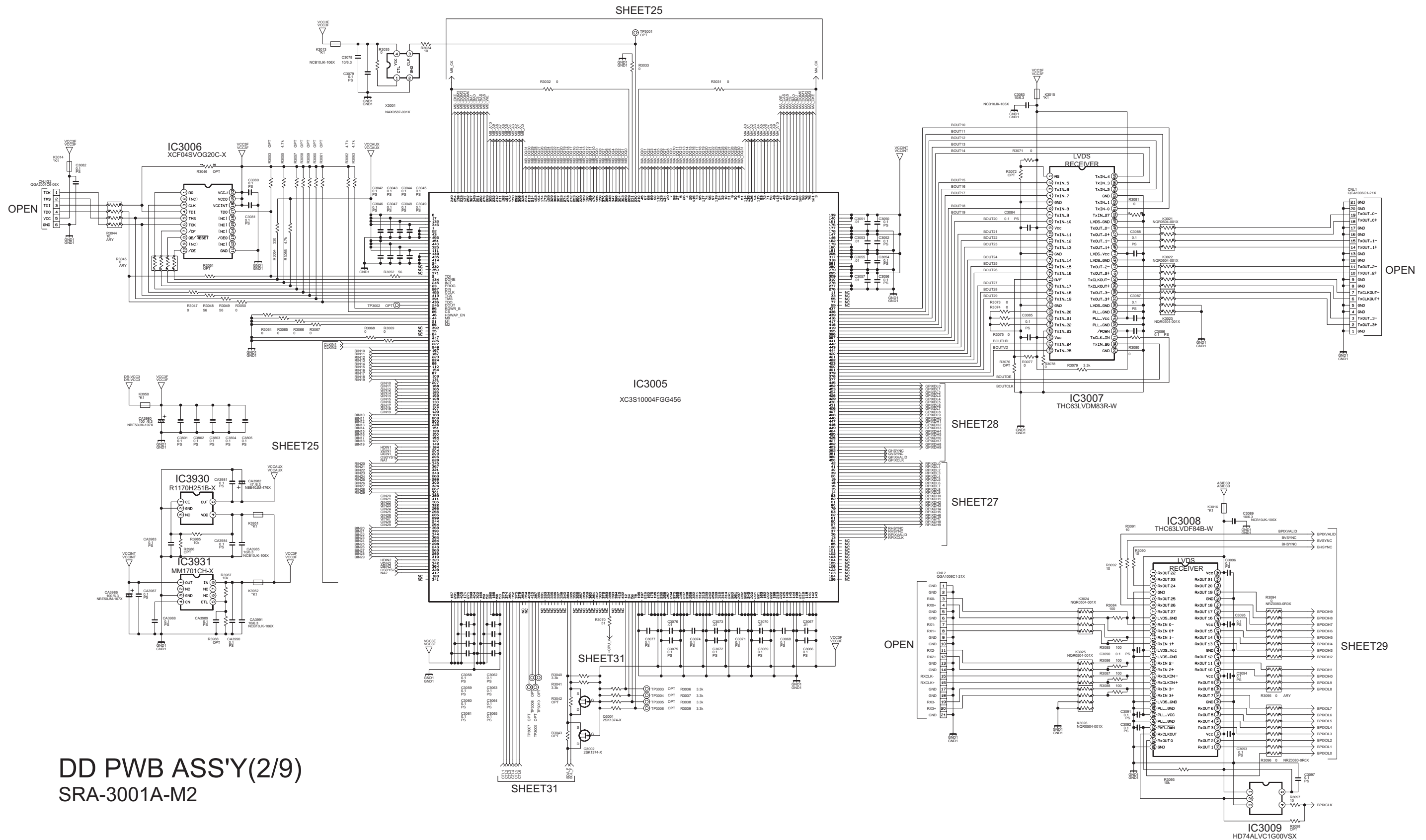
NOTE.
*1: NGR049B-001X
*2: NGR049B-002X
*4: MA111-X
RAO: NRZ0034-OR0W
PNP: 2SA1530A/QR/-X
NPN: 2SC3928A/QR/-X
L10: NQL79GM-100X
L22: NQL79GM-220X

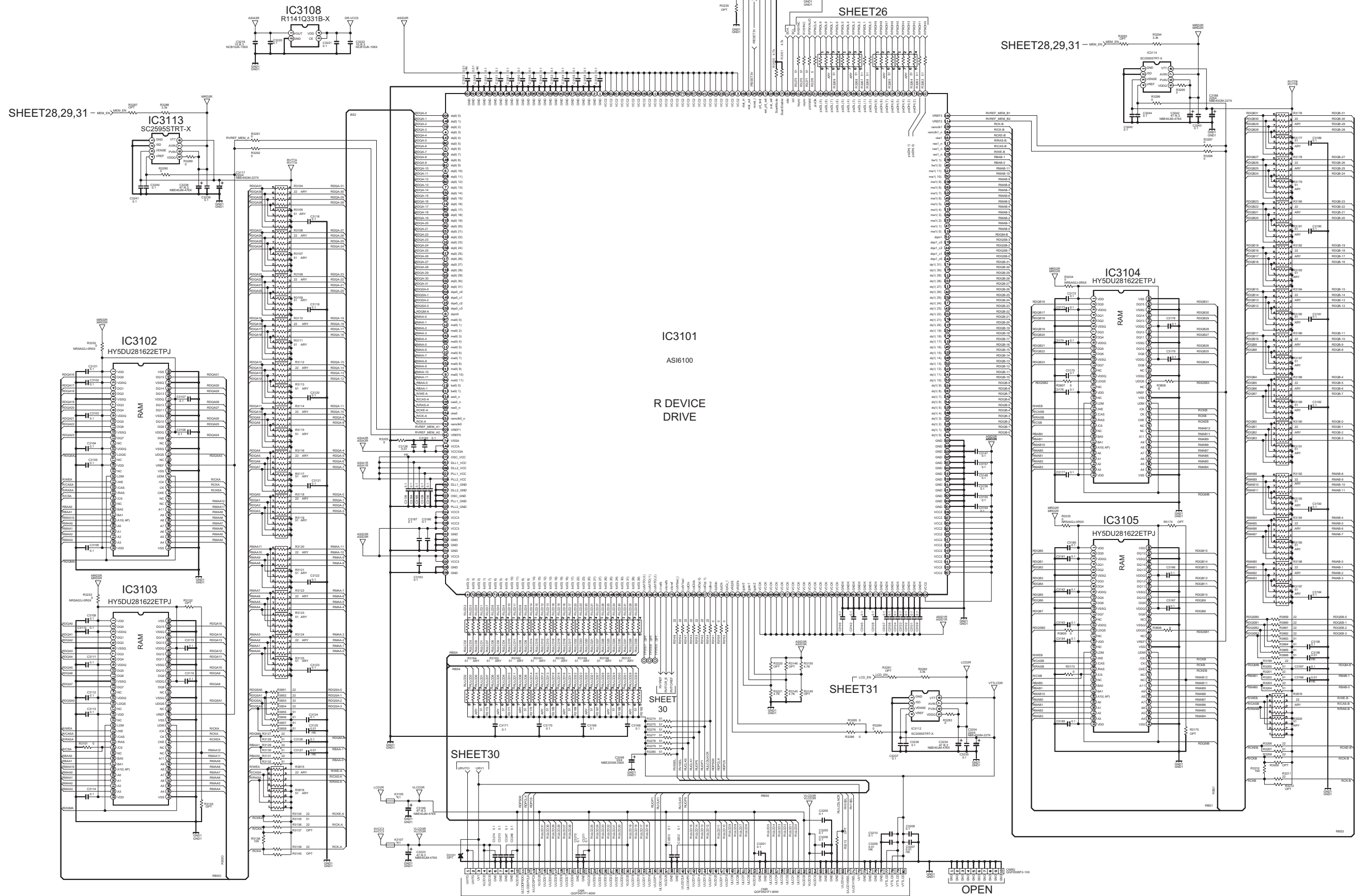




SHEET26







SHEET27,29,31

IC3302
HY5DU281622ETPJ

IC3303
HY5DU281622ETPJ

IC3308
R114Q331B-X

IC3301

AS16100

G DEVICE
DRIVE

SHEET 30

SHEET30

G DEVICE DRIVE

(No.YA337)2-63

2-64(No.YA337)

SHEET27,29,31

SHEET26

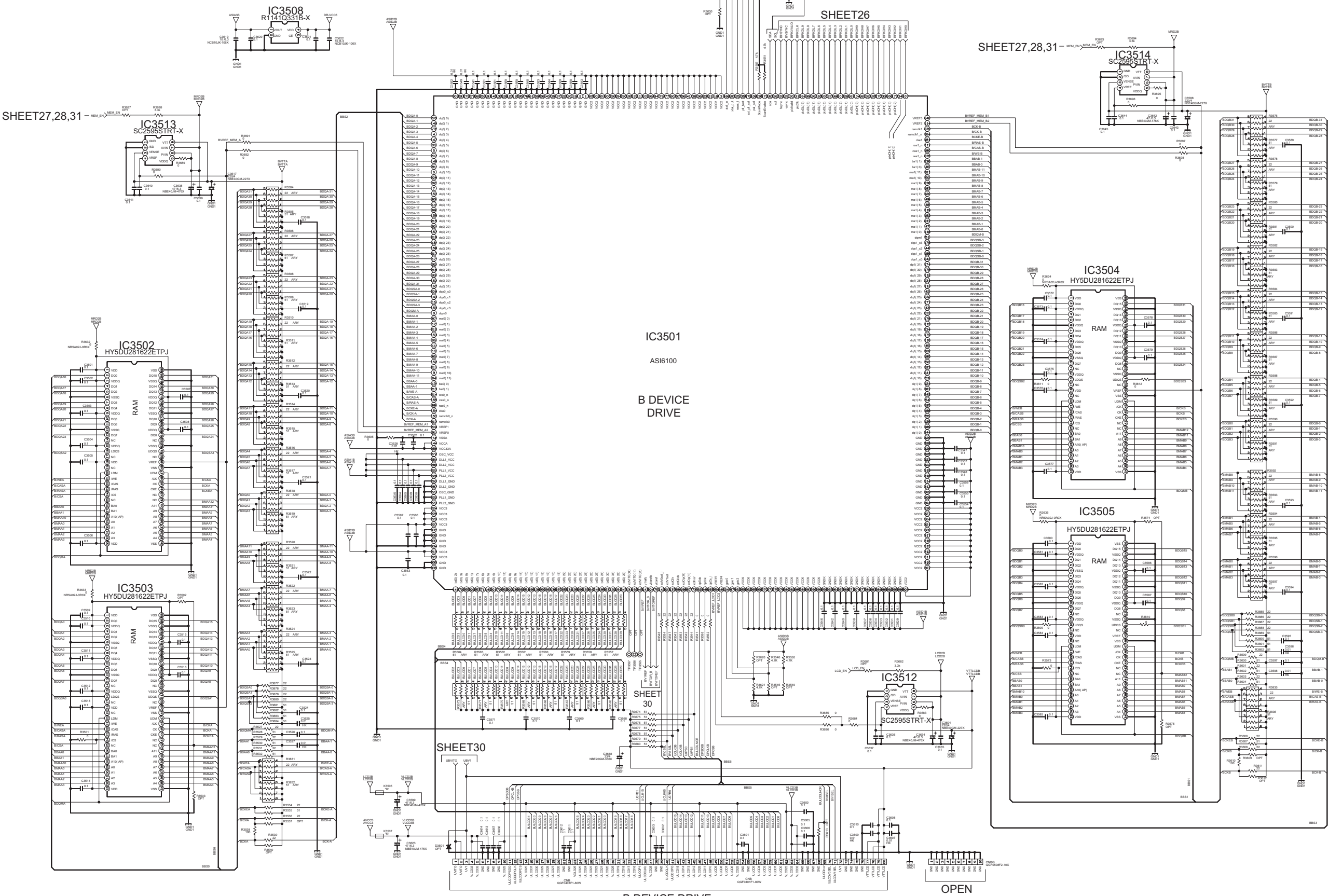
SHEET27,29,31

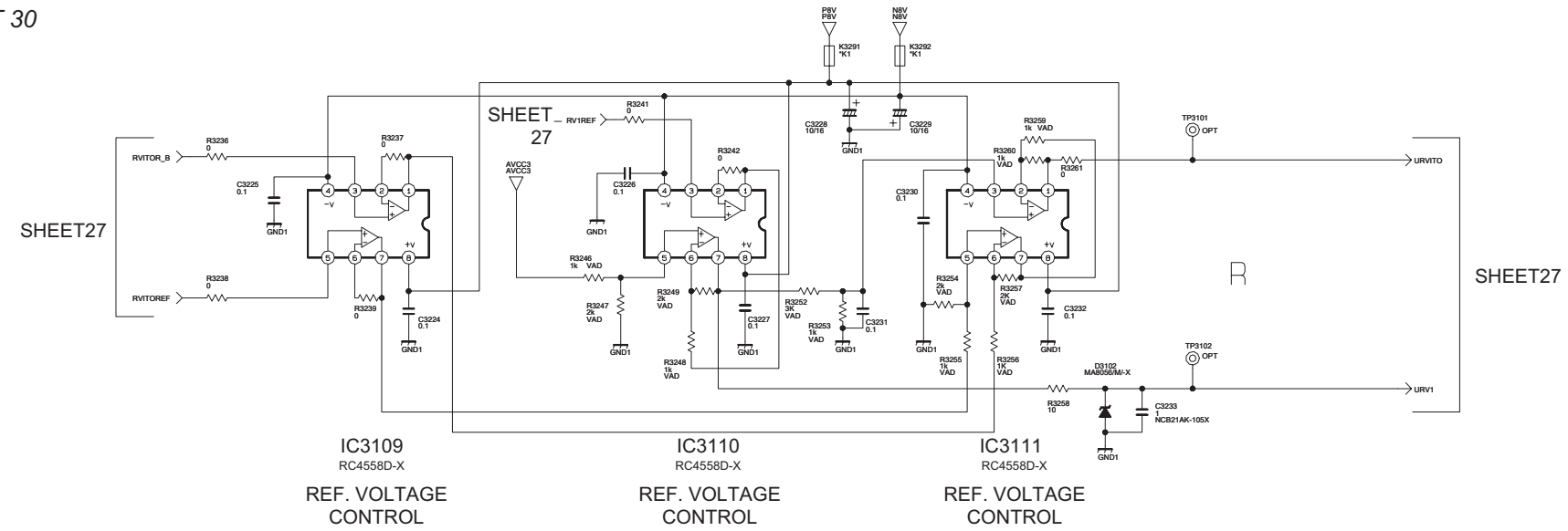
IC3304
HY5DU281622ETPJ

IC3305
HY5DU281622ETPJ

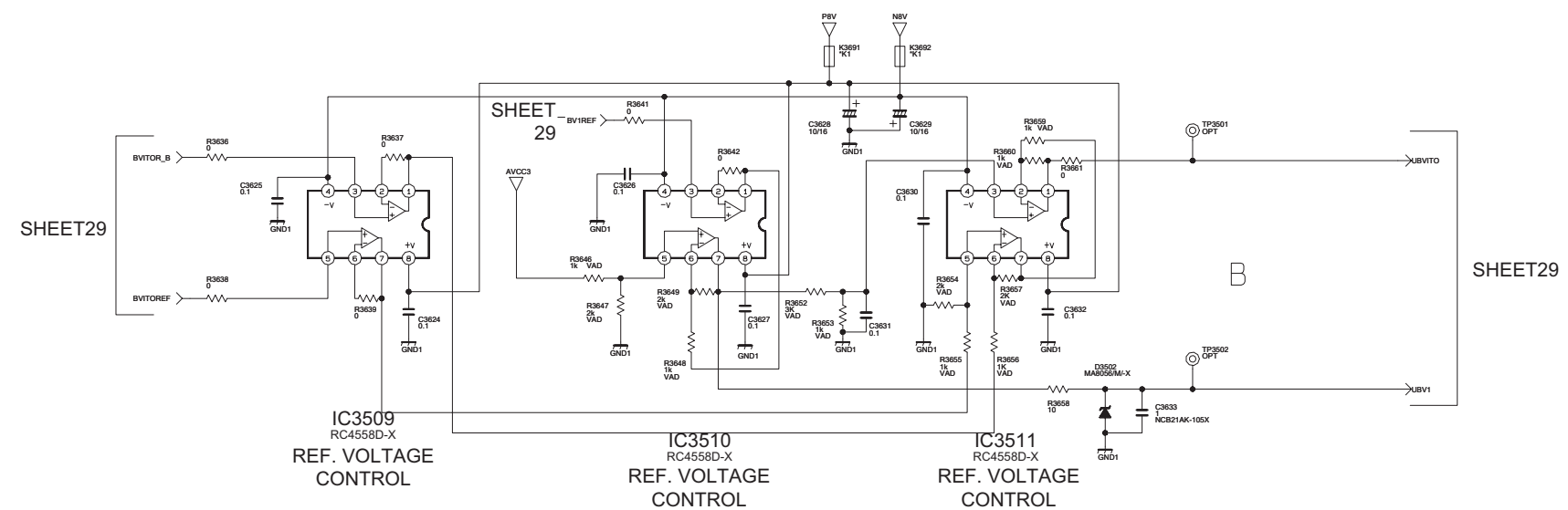
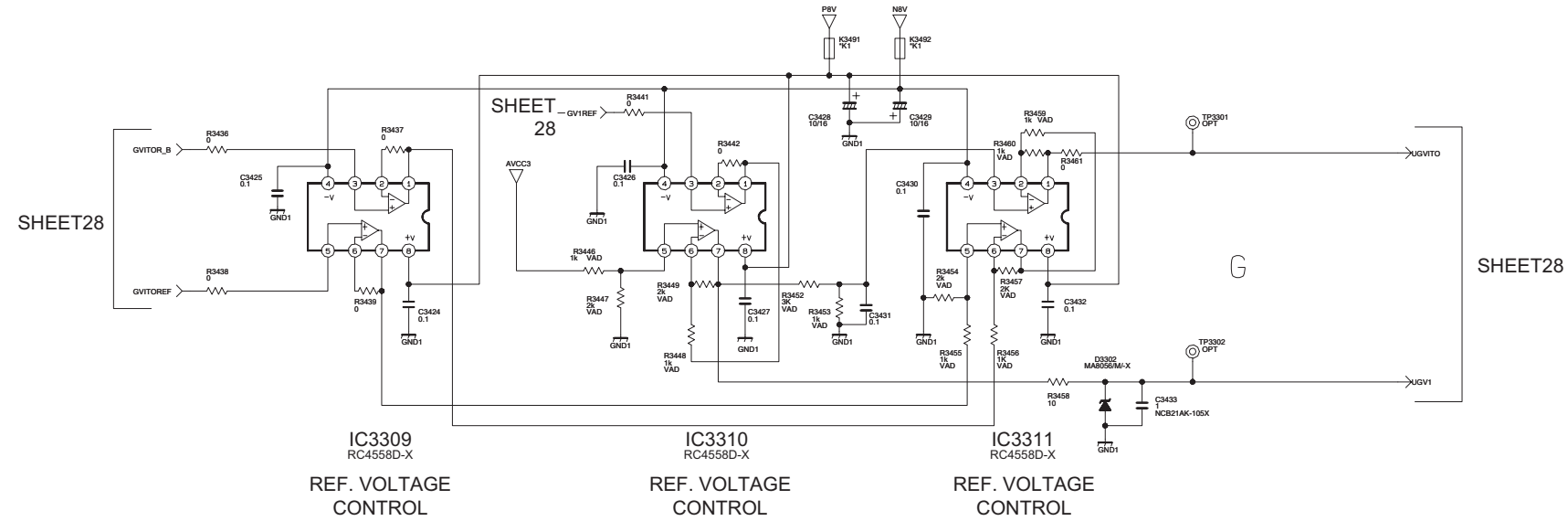
OPEN

DD PWB ASS'Y(5/9)
SRA-3001A-M2

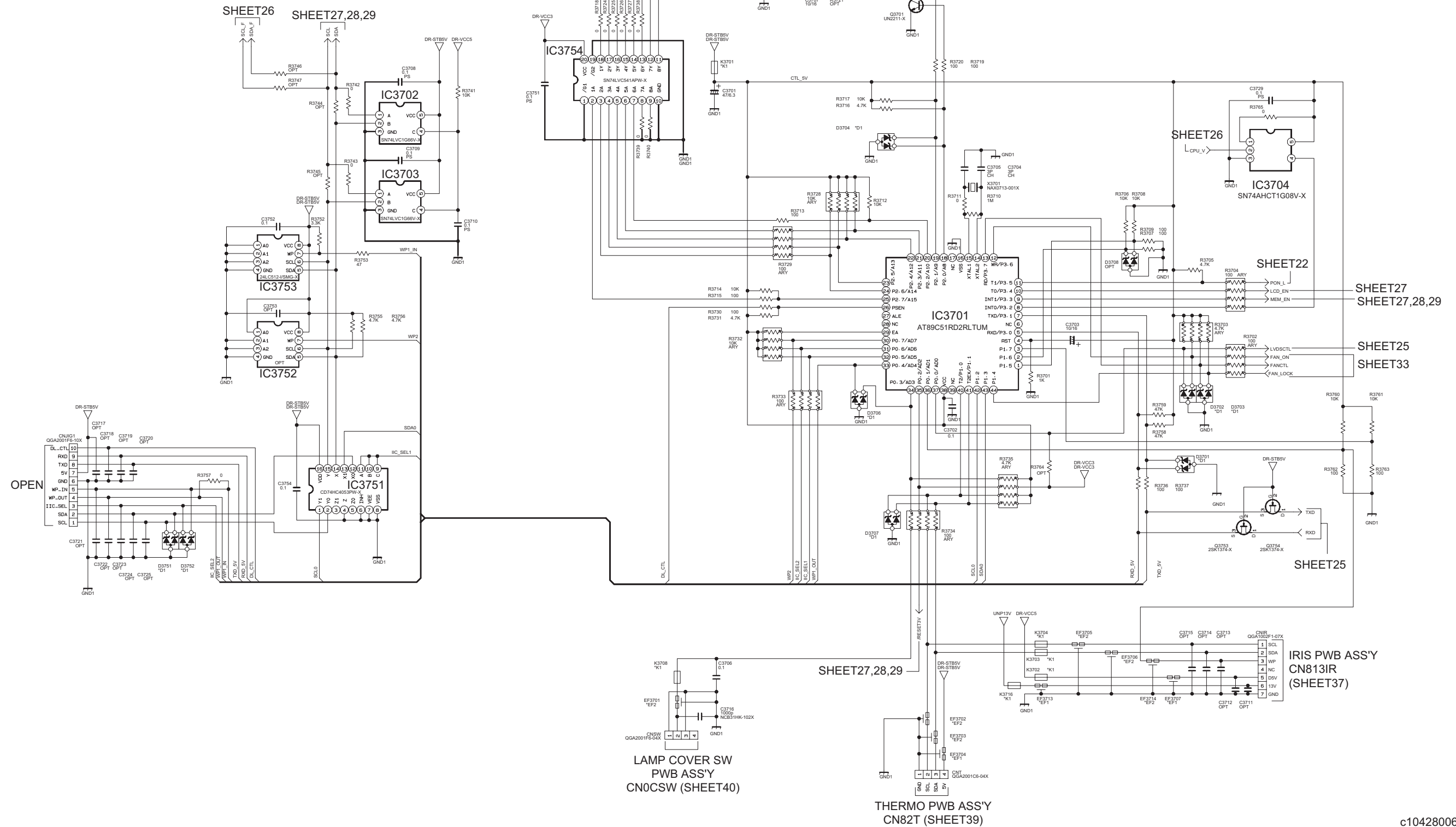


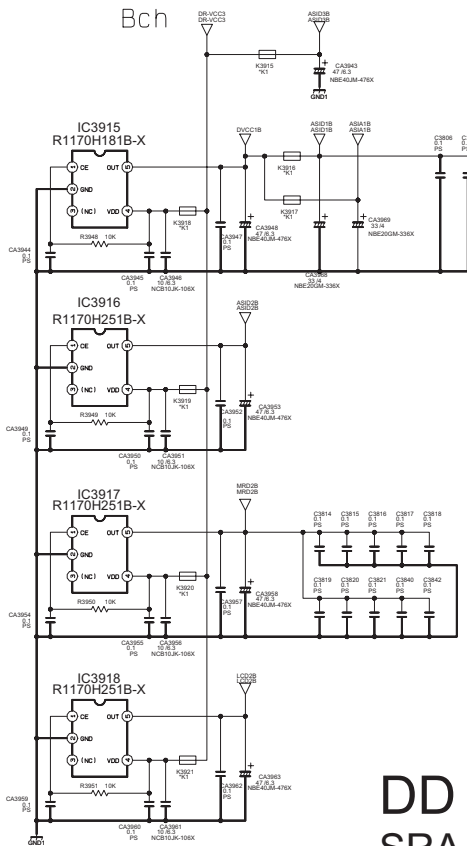
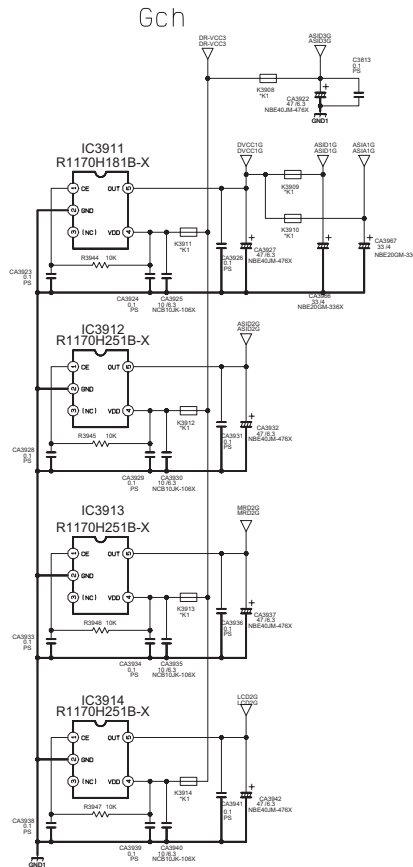
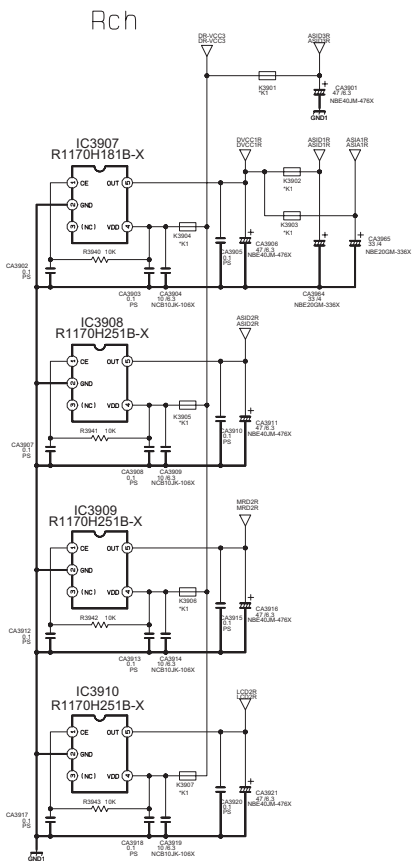
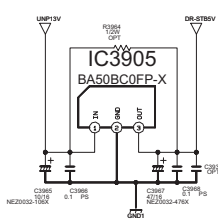
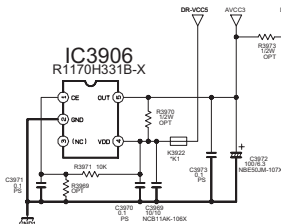
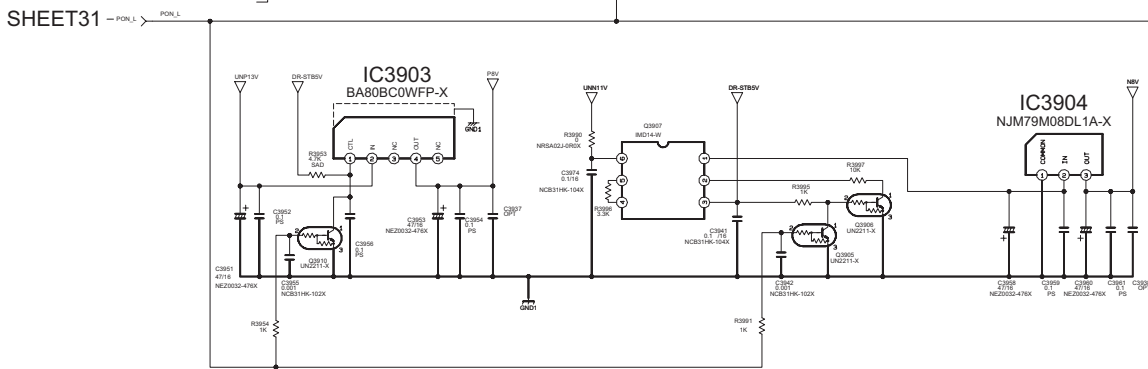
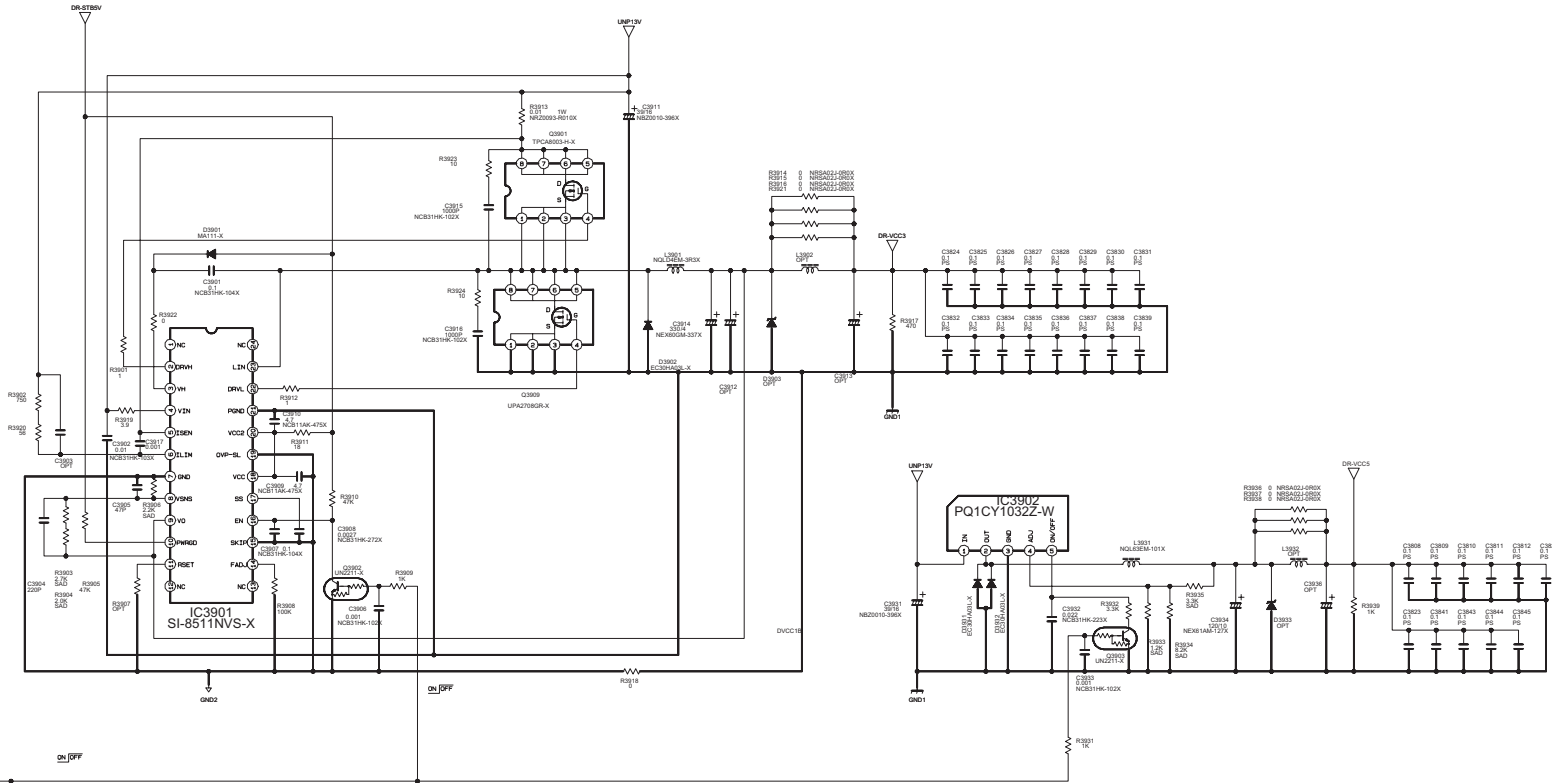
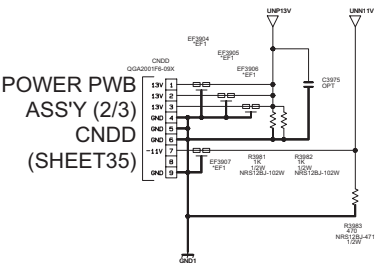


DD PWB ASS'Y(6/9)
SRA-3001A-M2

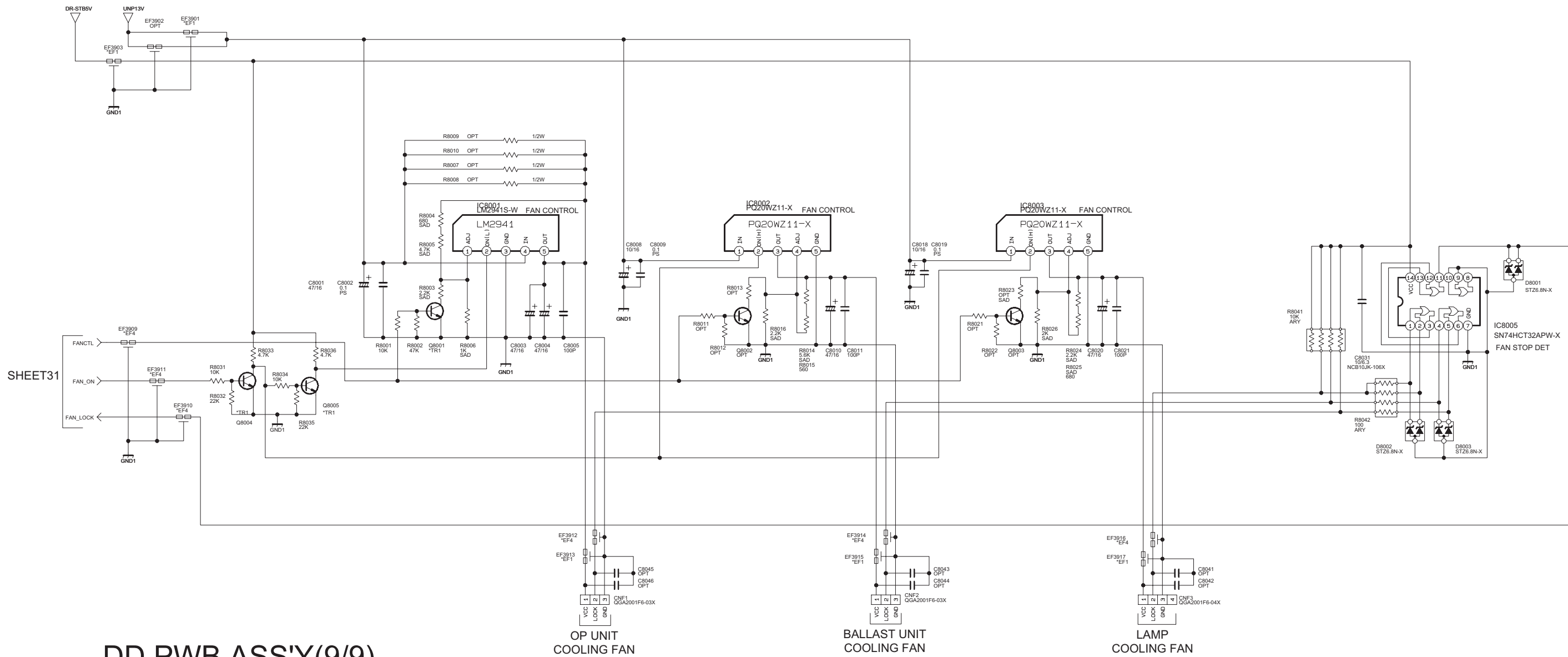


DD PWB ASS'Y(7/9)
SRA-3001A-M2



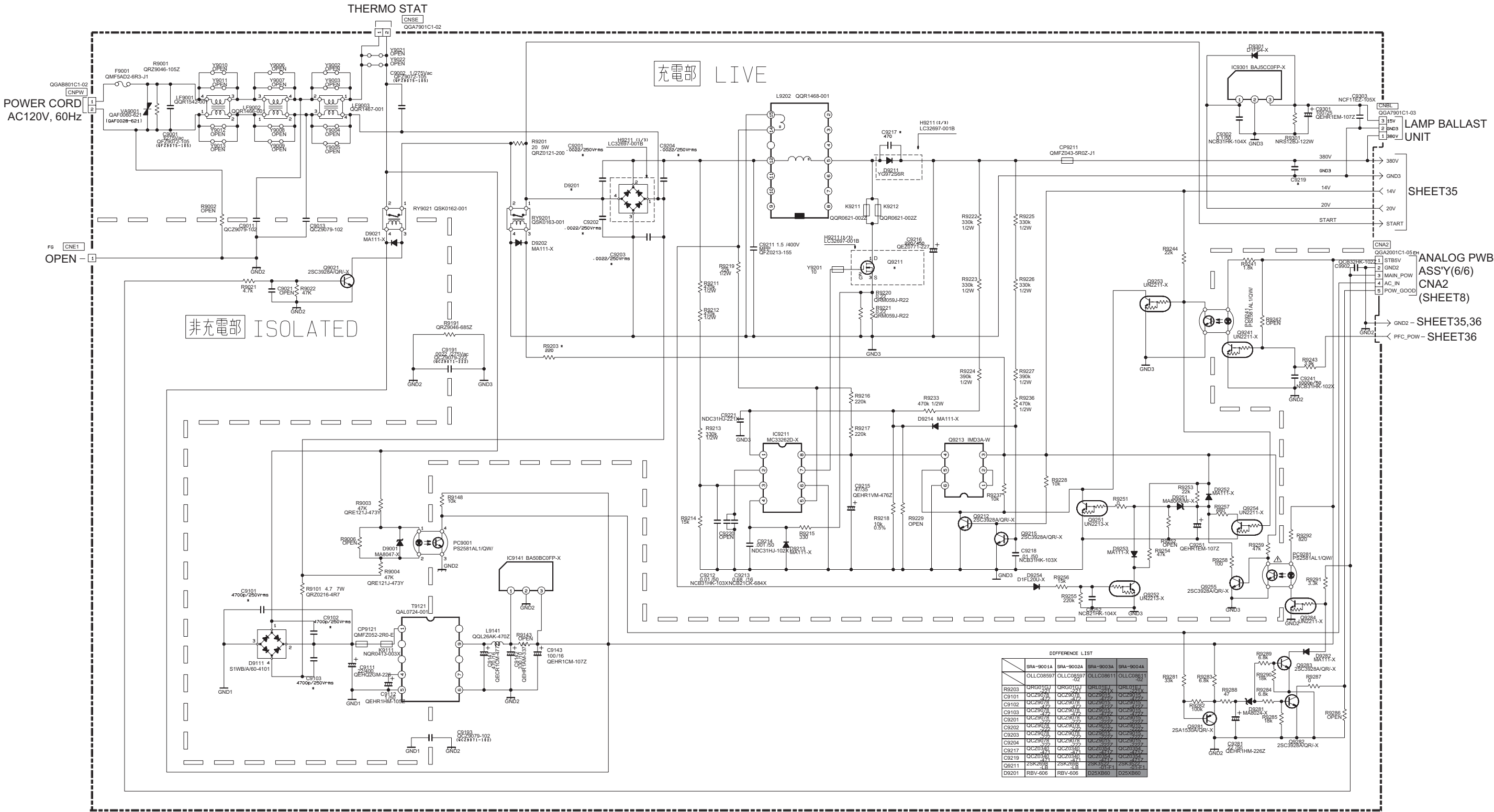


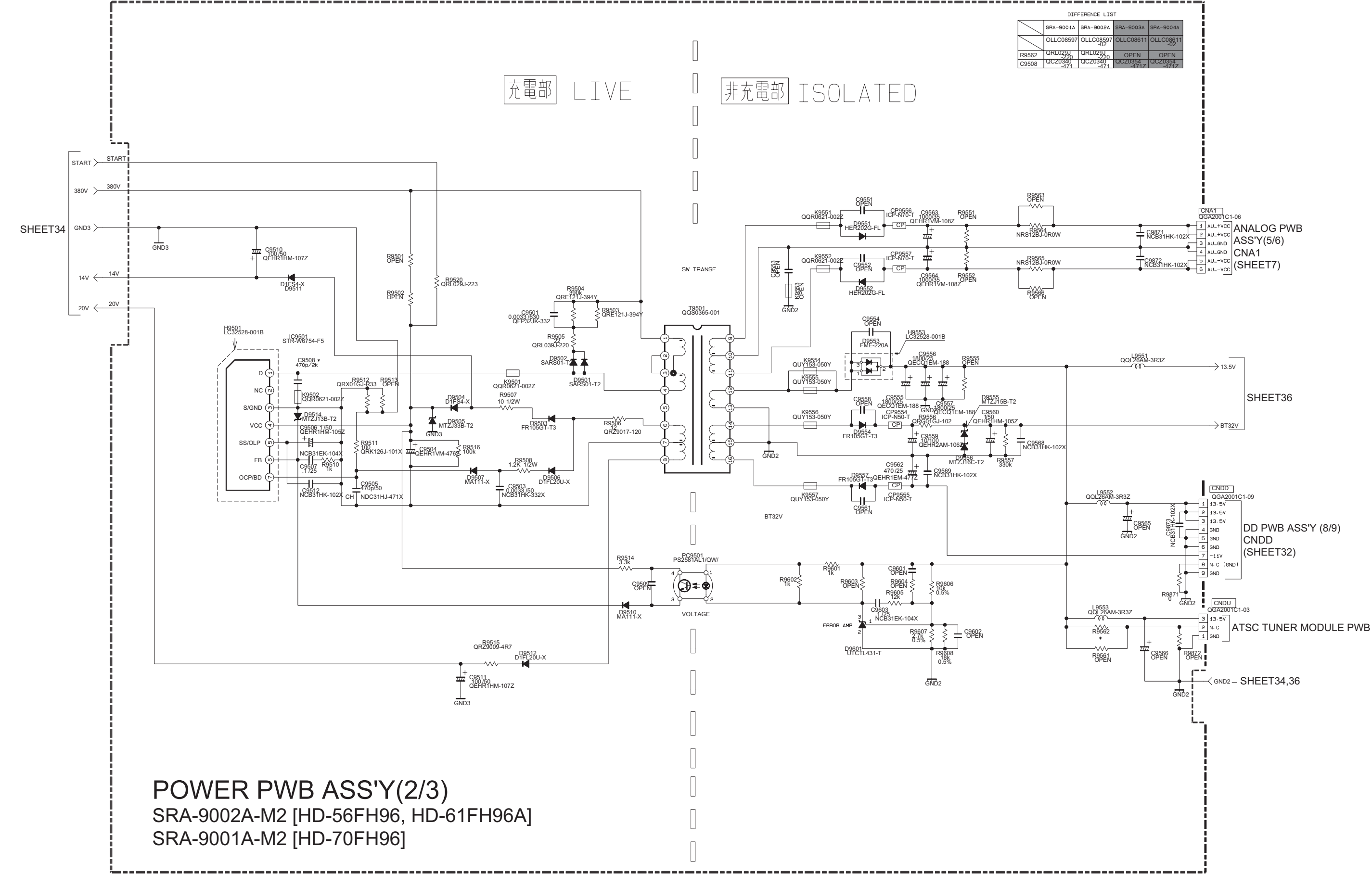
DD PWB ASS'Y(8/9)
SRA-3001A-M2

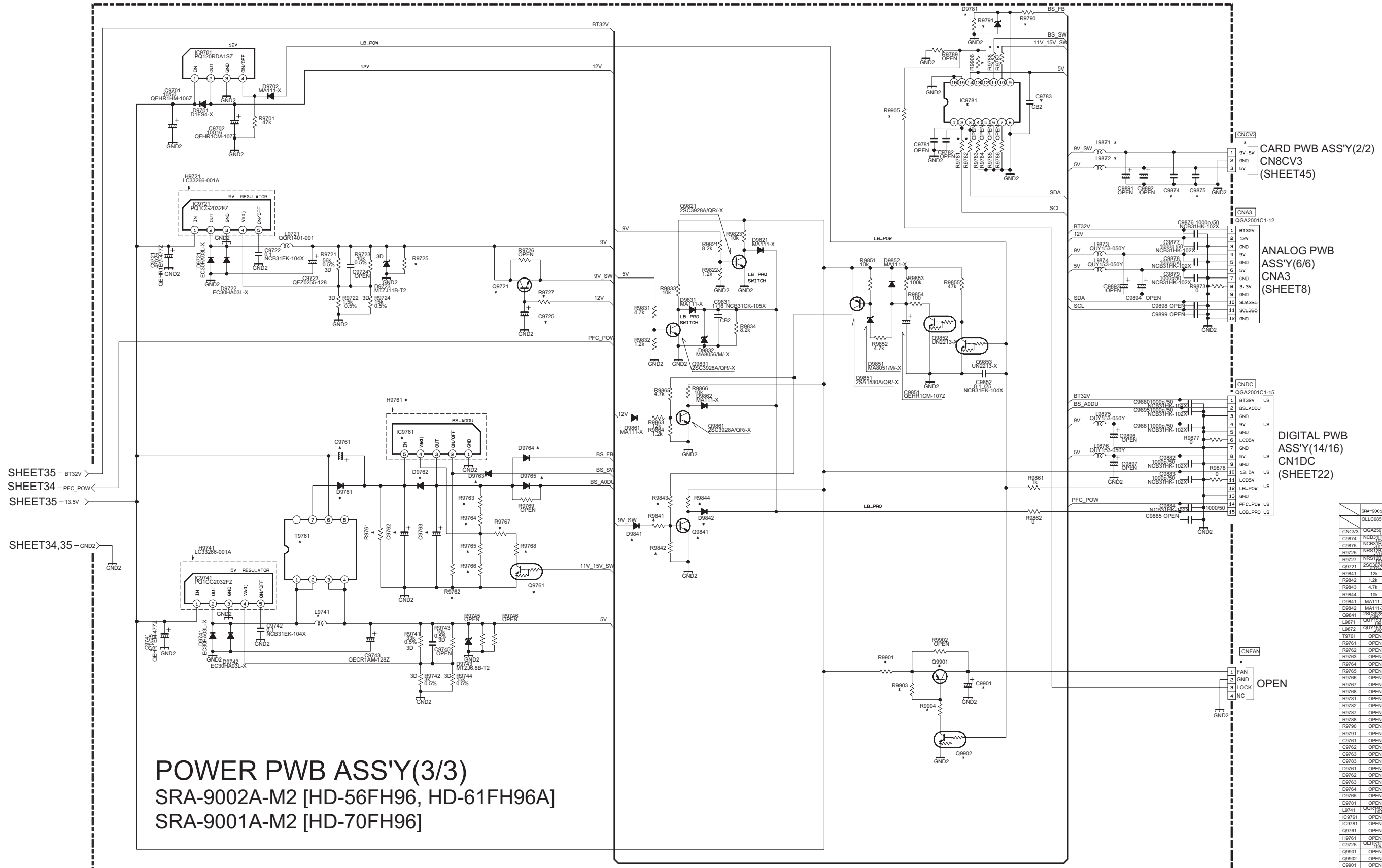


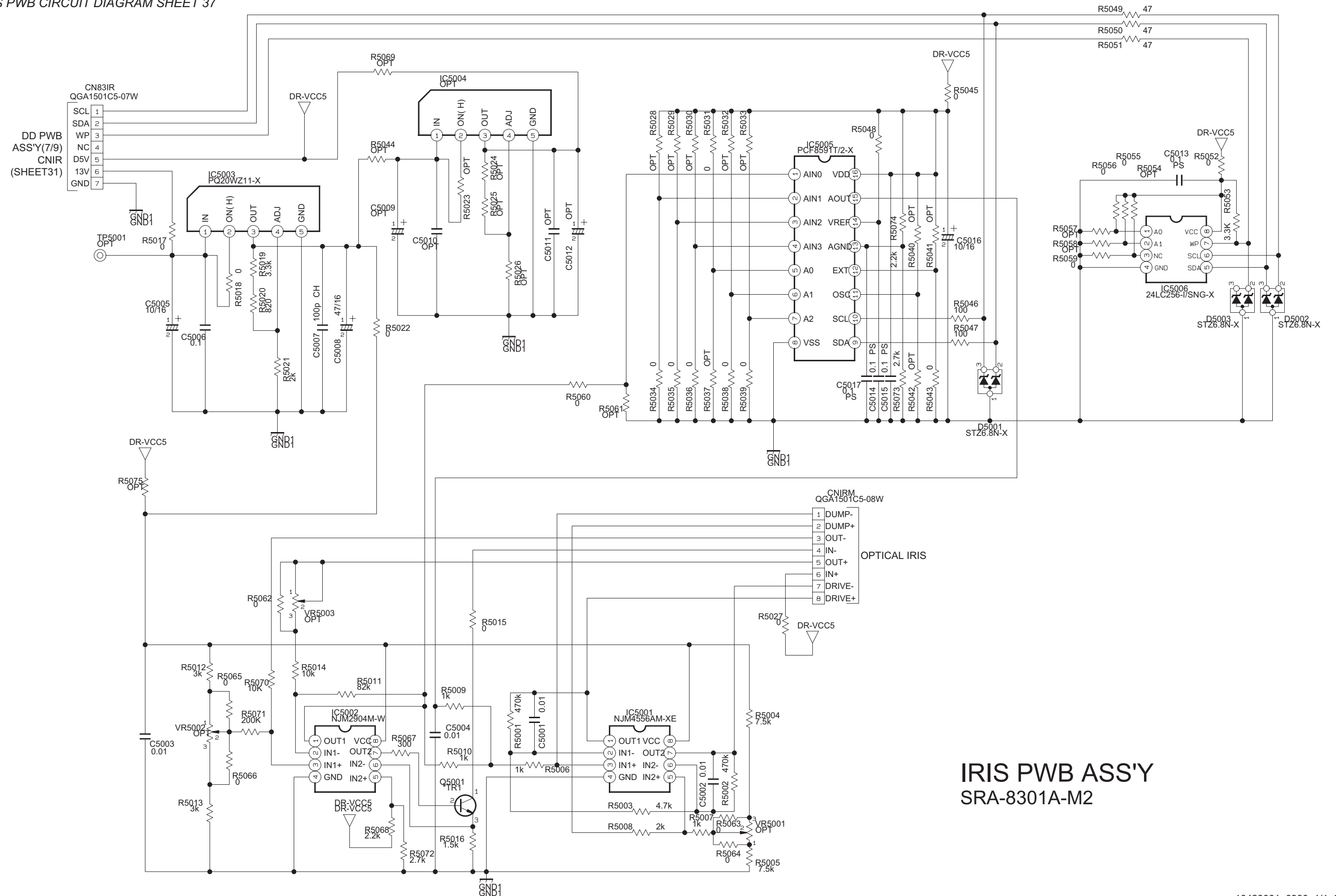
DD PWB ASS'Y(9/9)
SRA-3001A-M2

POWER PWB ASS'Y(1/3)
SRA-9002A-M2 [HD-56FH96, HD-61FH96A]
SRA-9001A-M2 [HD-70FH96]





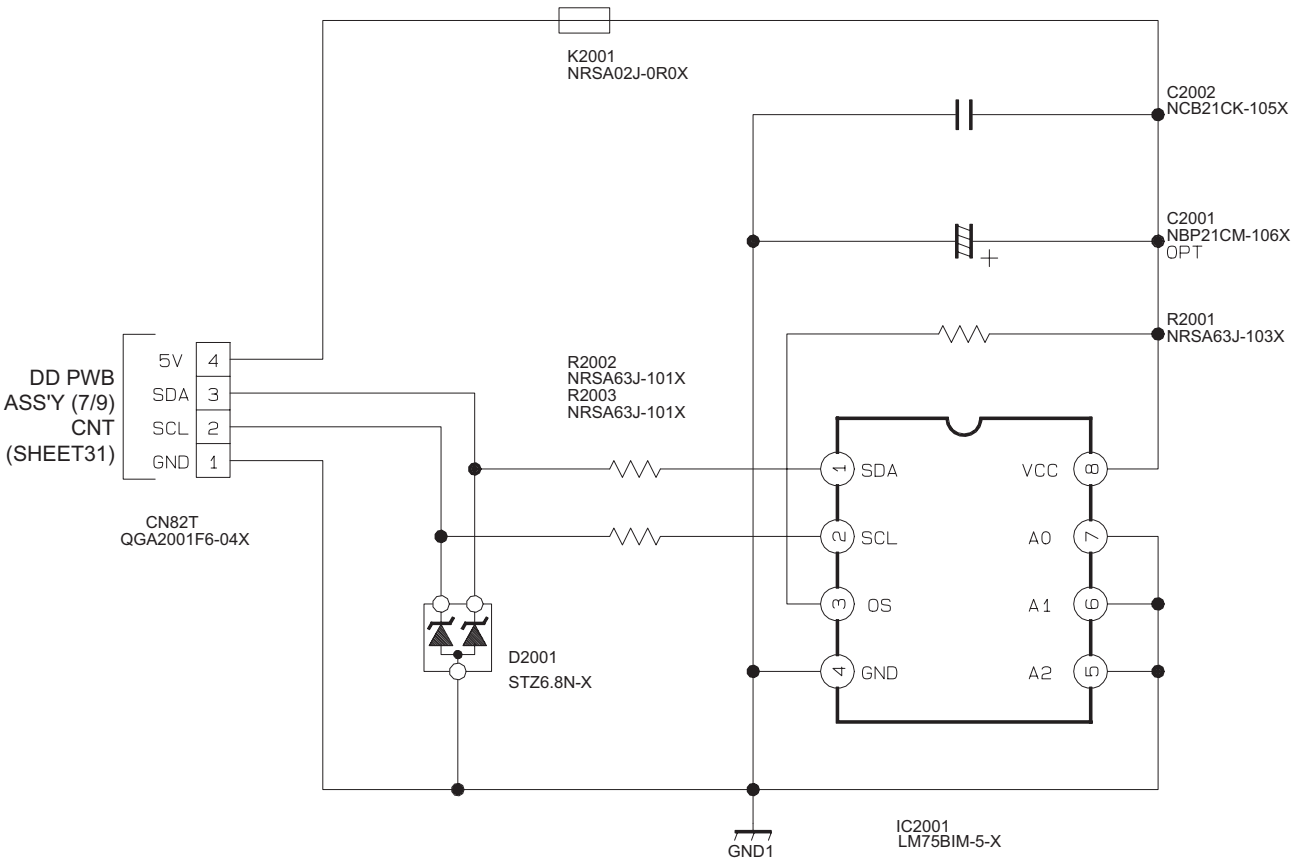
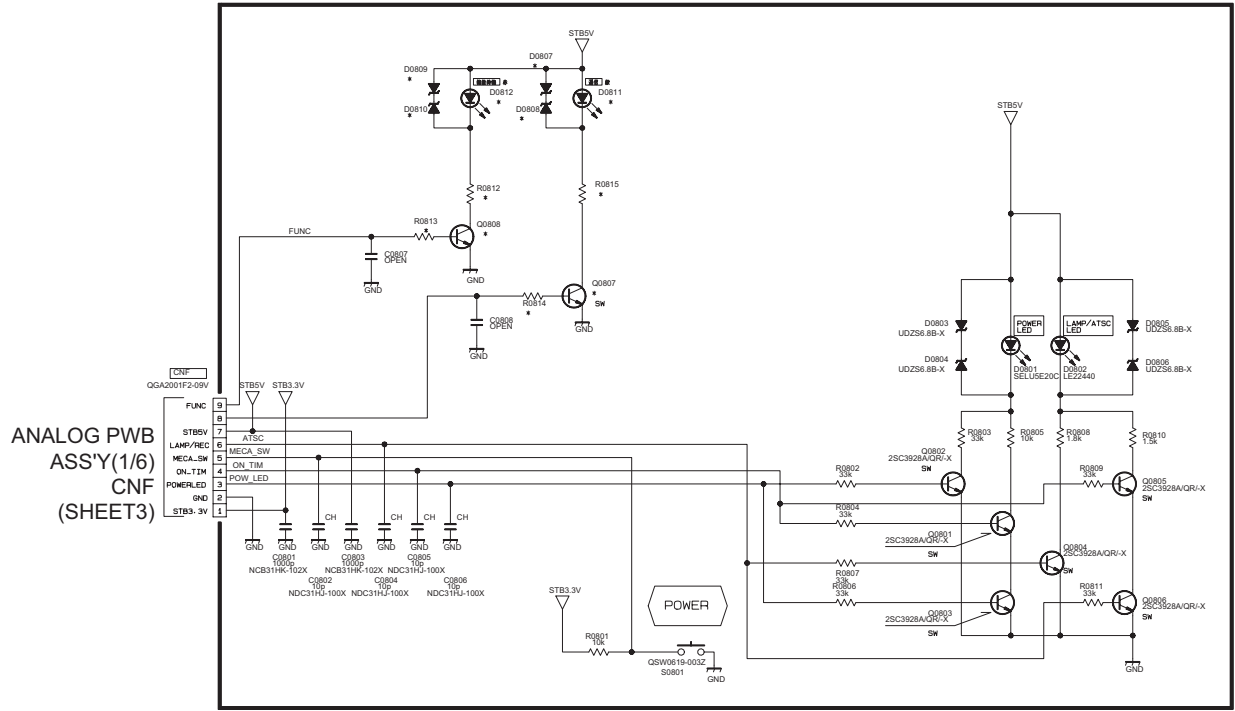
[illegible]



IRIS PWB ASS'Y
SRA-8301A-M2

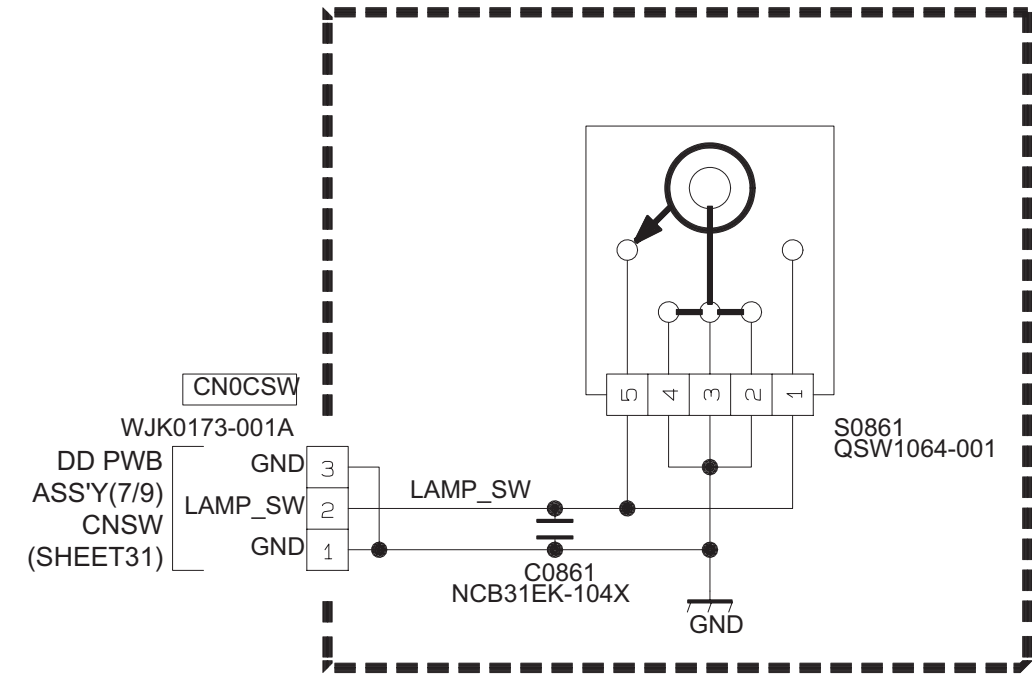
FRONT LED PWB ASS'Y
SRA0L101A-M2

THERMO PWB ASS'Y
SRA-8201A-M2

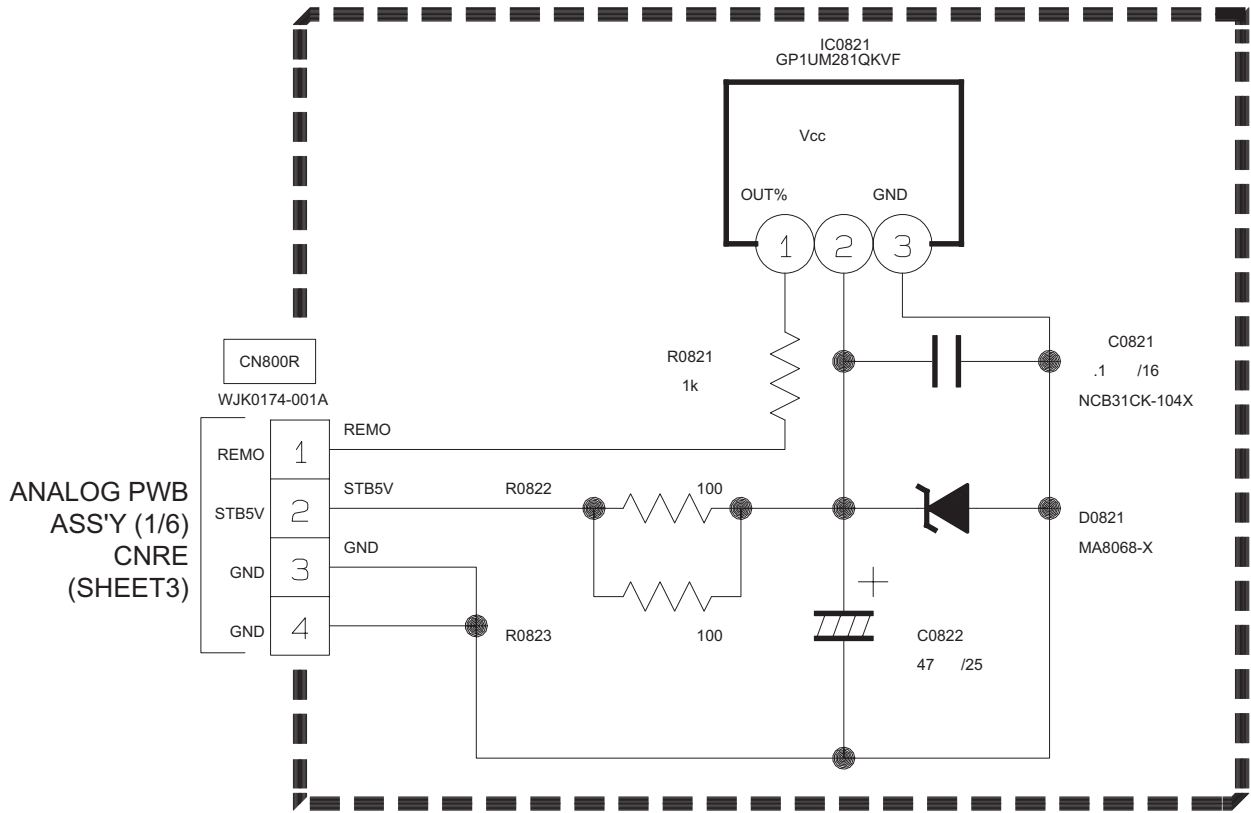


*** DIFFERENCE LIST

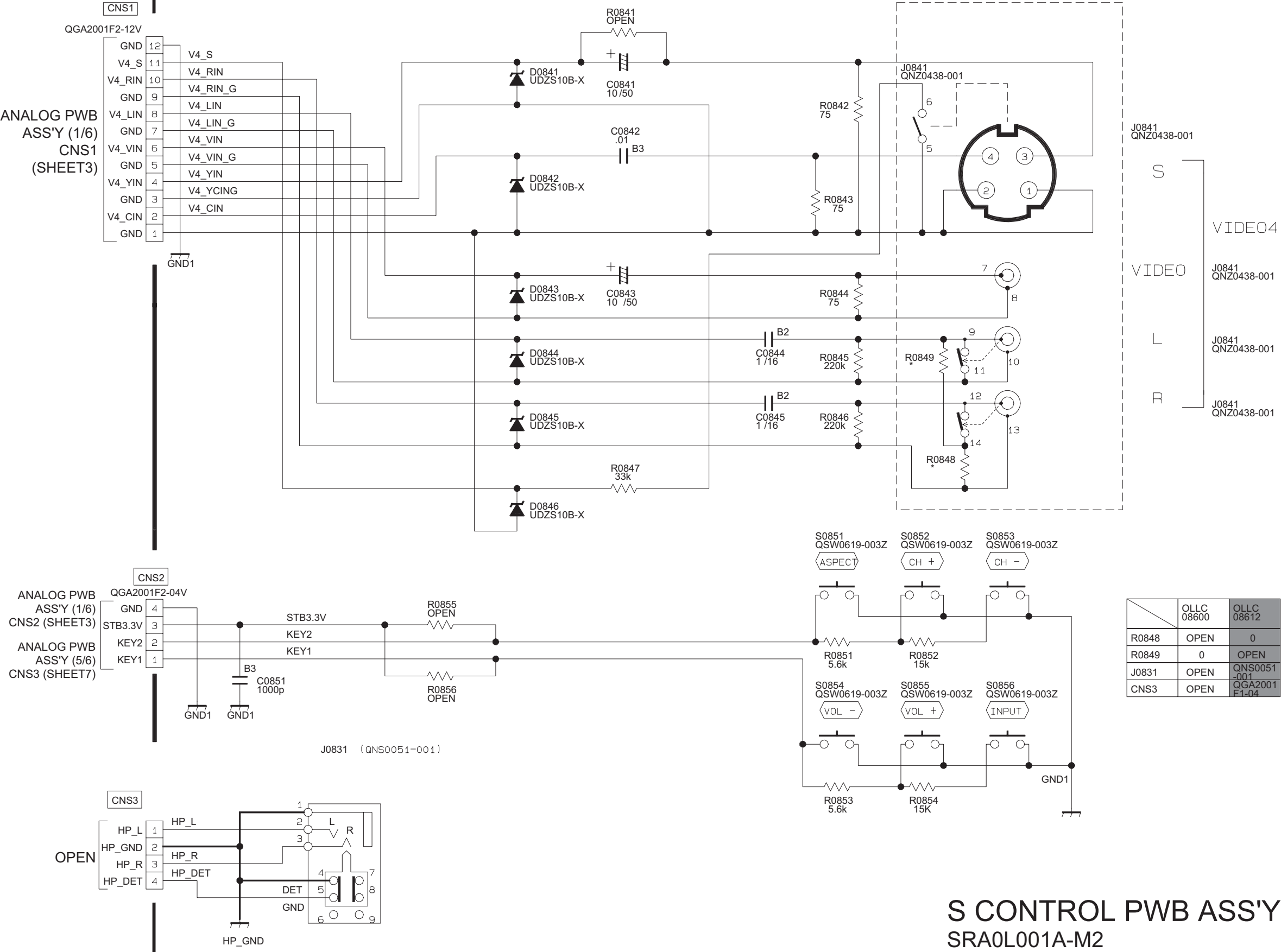
	JPN	US
	OLLC08617	OLLC08598
R812	1k	OPEN
R813	33k	OPEN
R814	33k	OPEN
R815	1k	OPEN
D807	UDZS6.8B-X	OPEN
D808	UDZS6.8B-X	OPEN
D809	UDZS6.8B-X	OPEN
D810	UDZS6.8B-X	OPEN
D811	LG22440	OPEN
D812	LH22440	OPEN
Q807	2SC3928A/QR-X	OPEN
Q808	2SC3928A/QR-X	OPEN

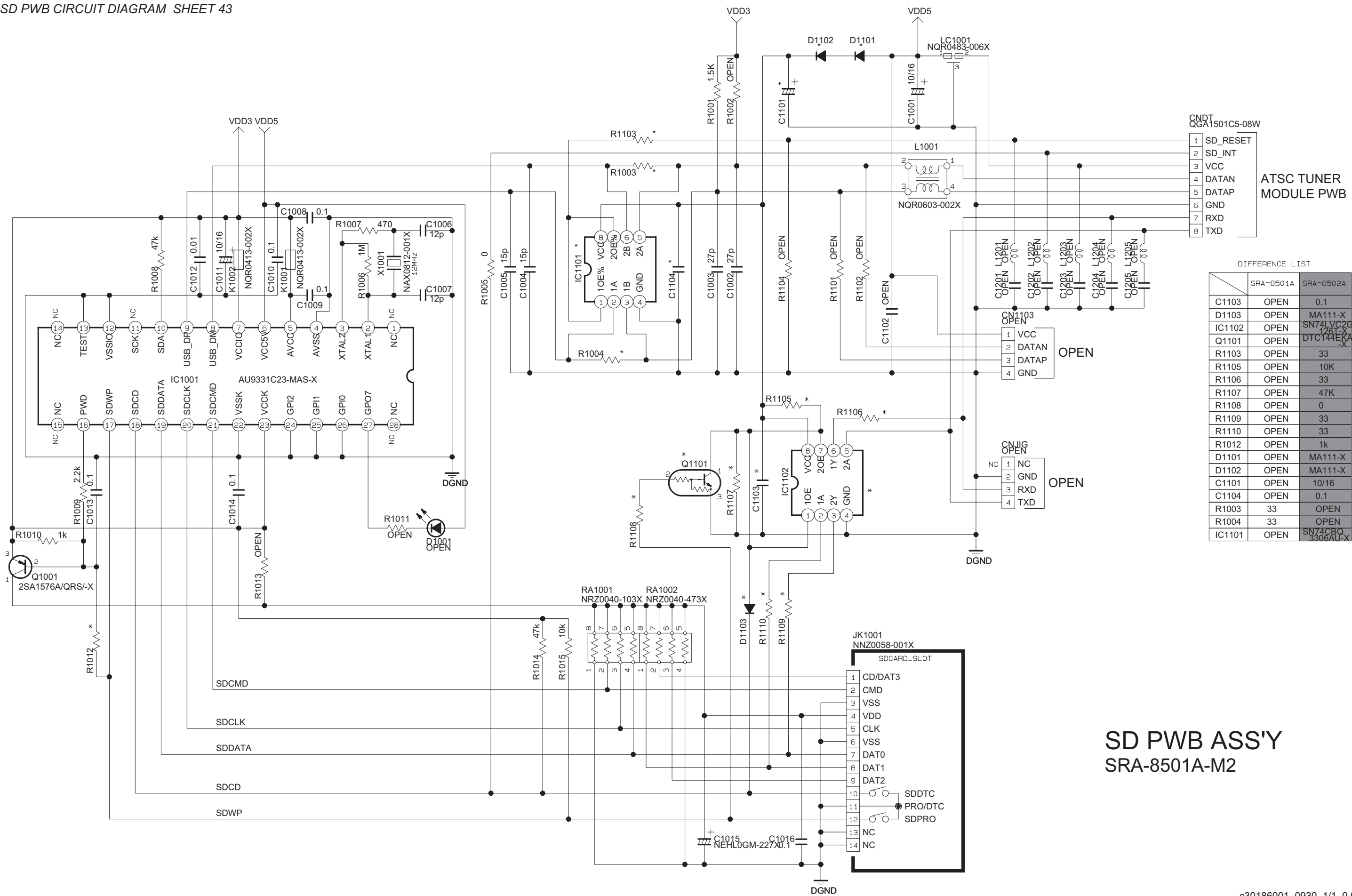


LAMP COVER SW PWB ASS'Y
SRA0L201A-M2

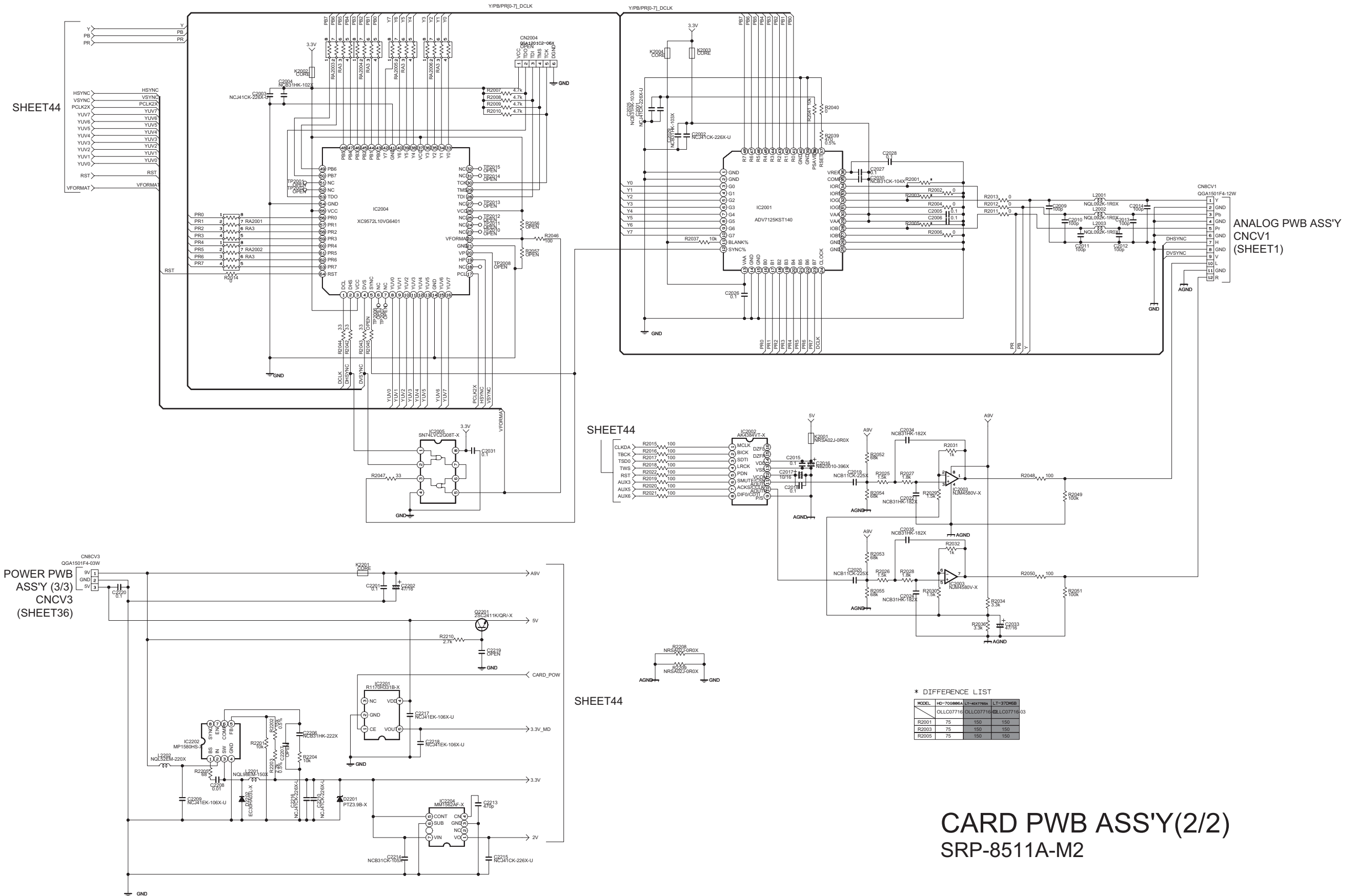


REMOCON PWB ASS'Y
SRA-8001A-M2

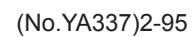




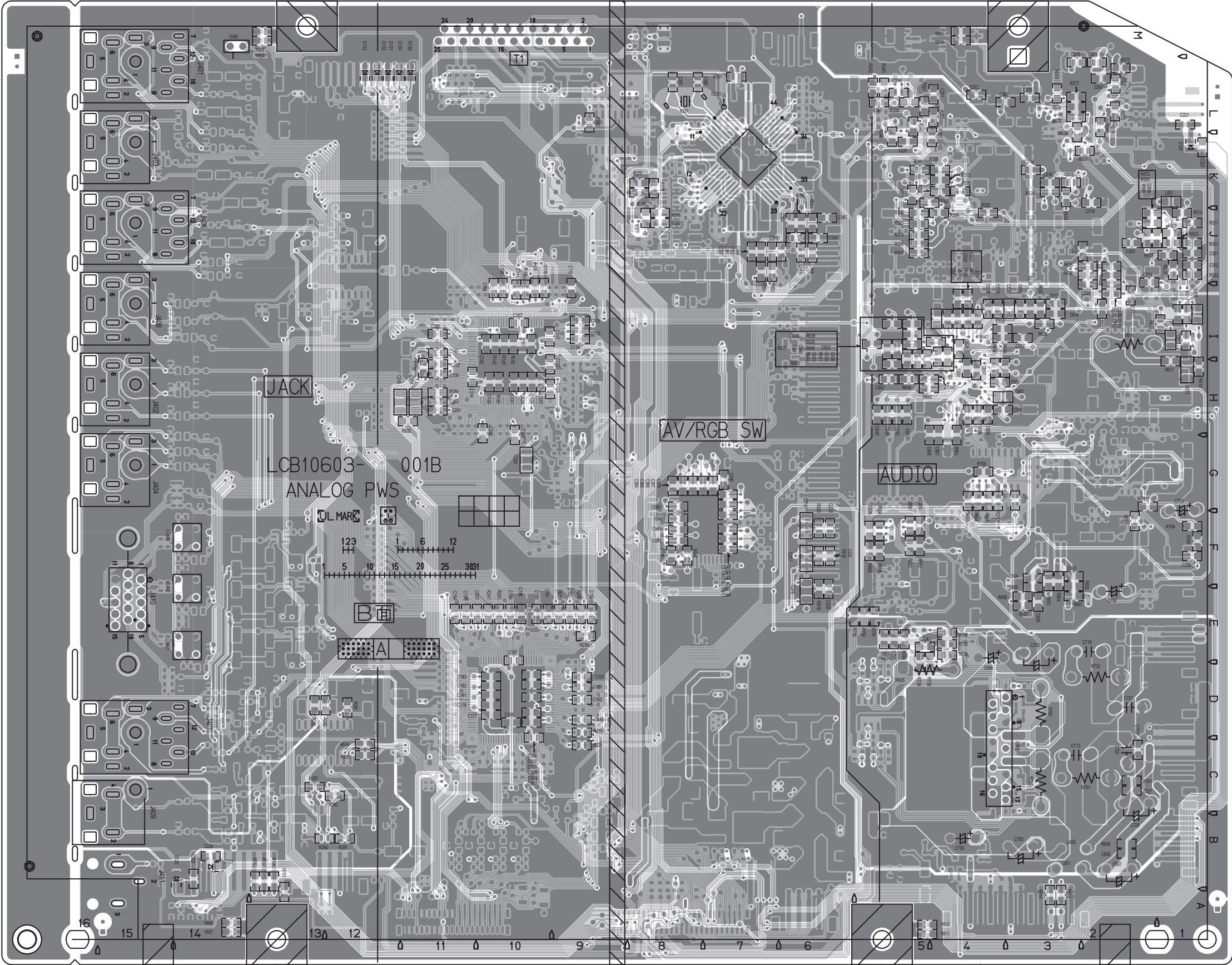


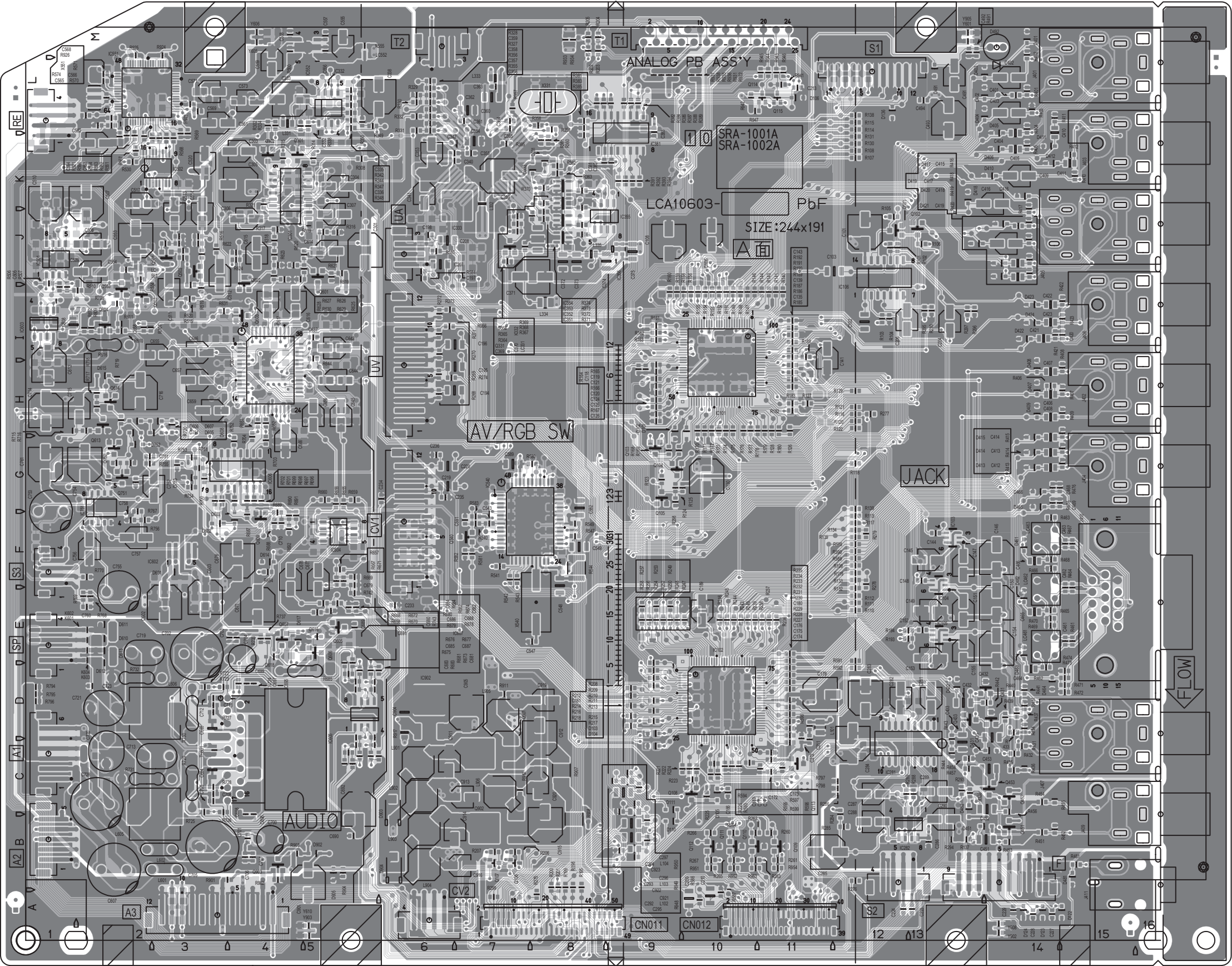


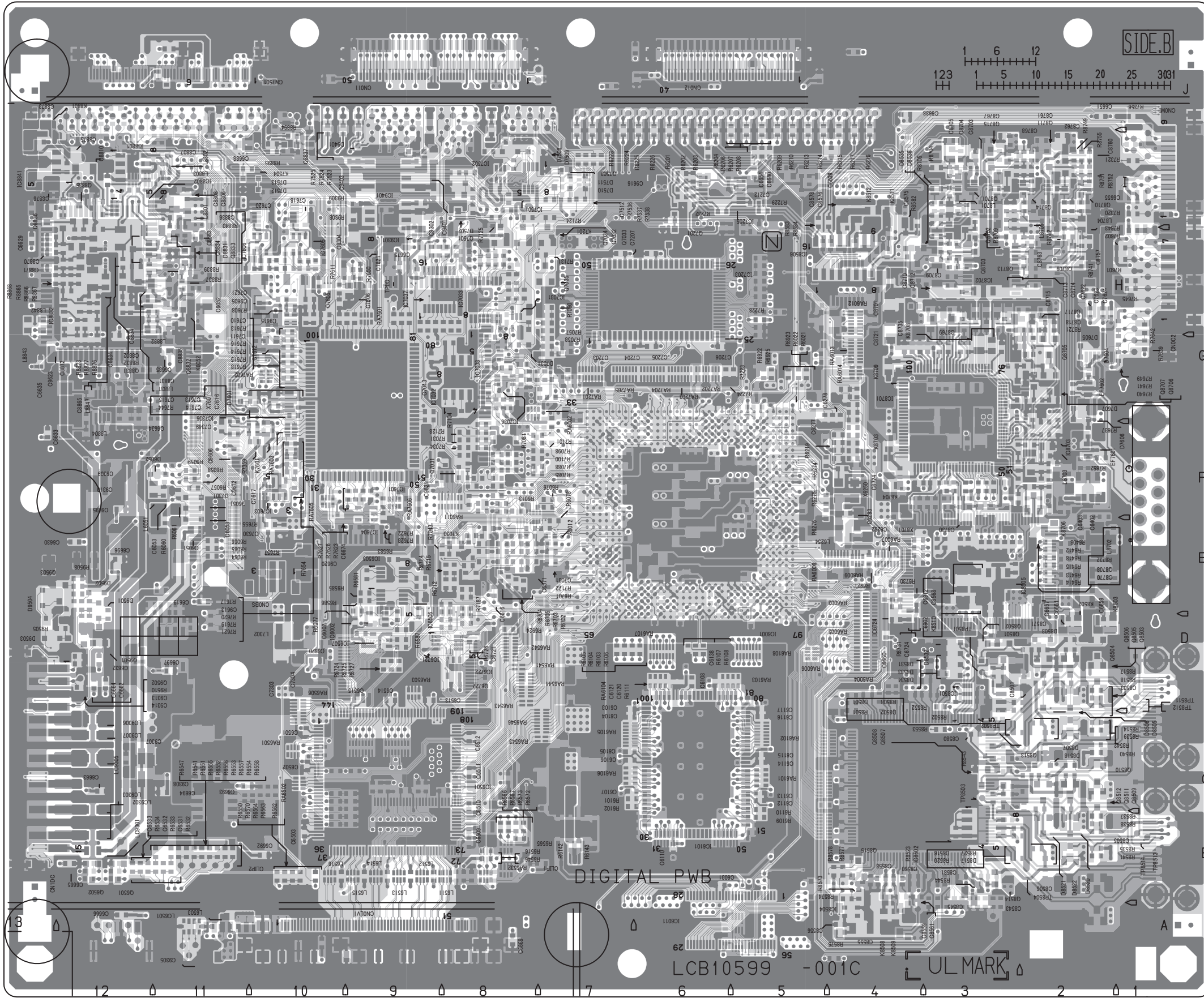
TUNER PWB PATTERN [SOLDER SIDE]

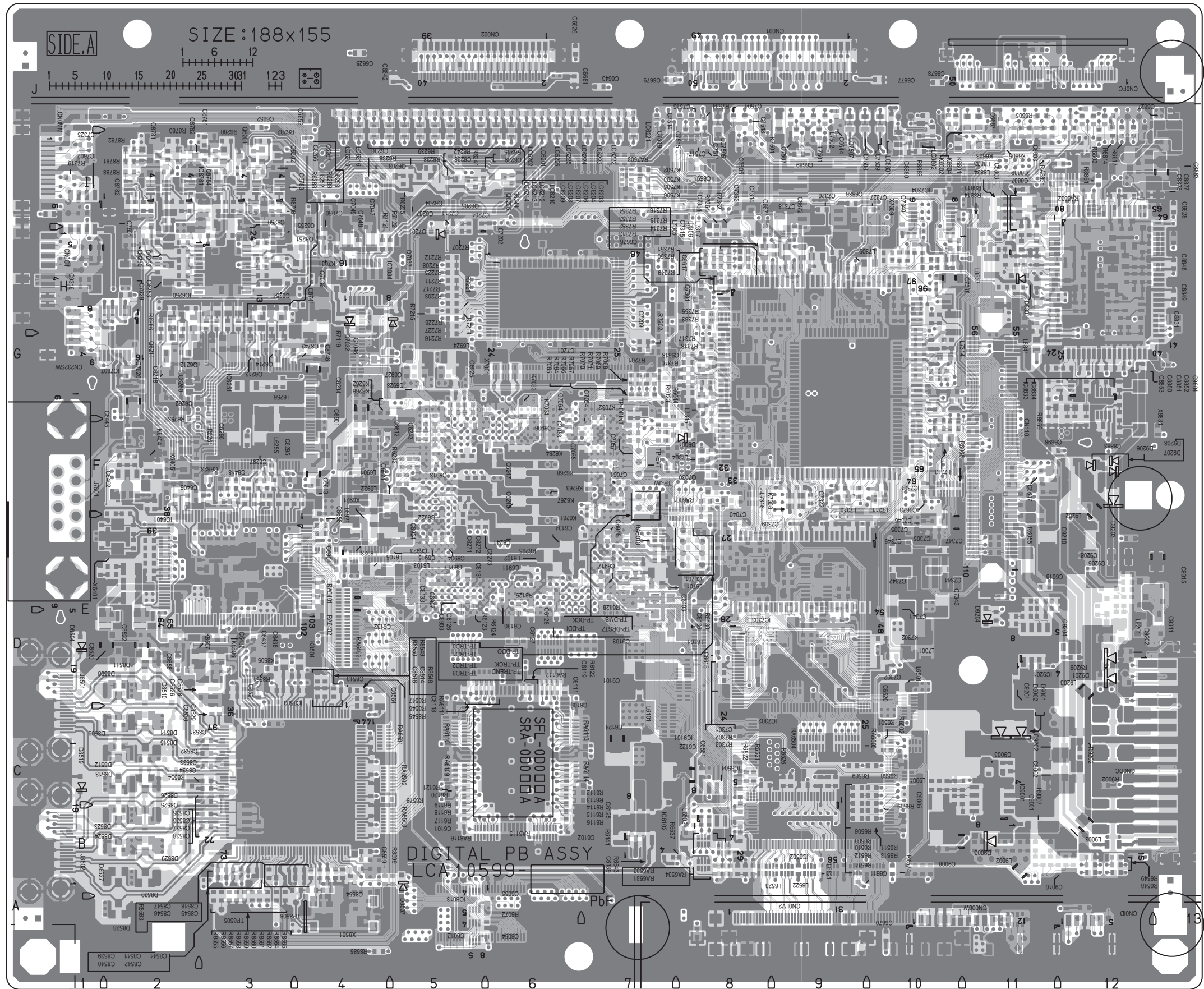


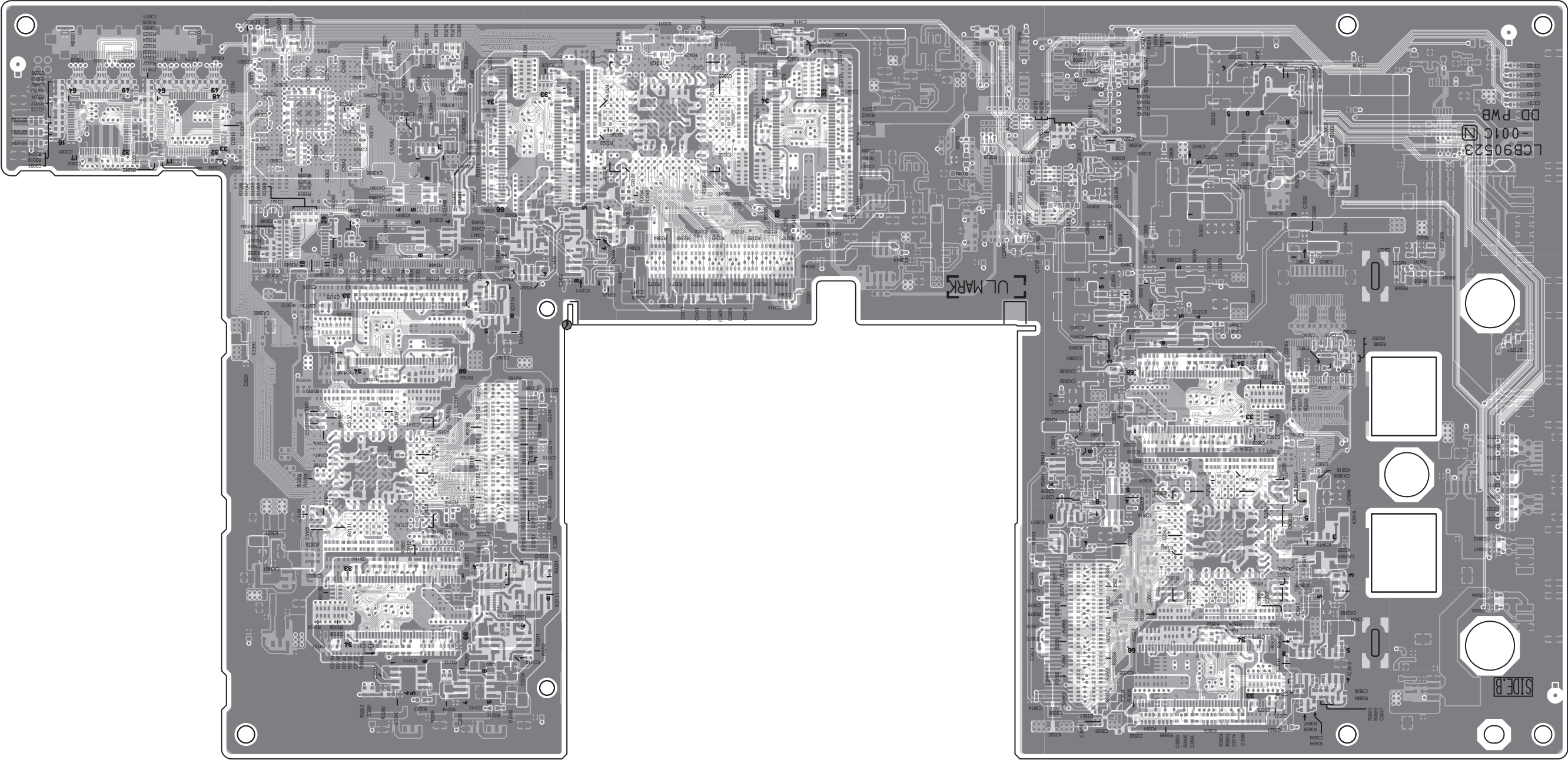
2-96(No.YA337)

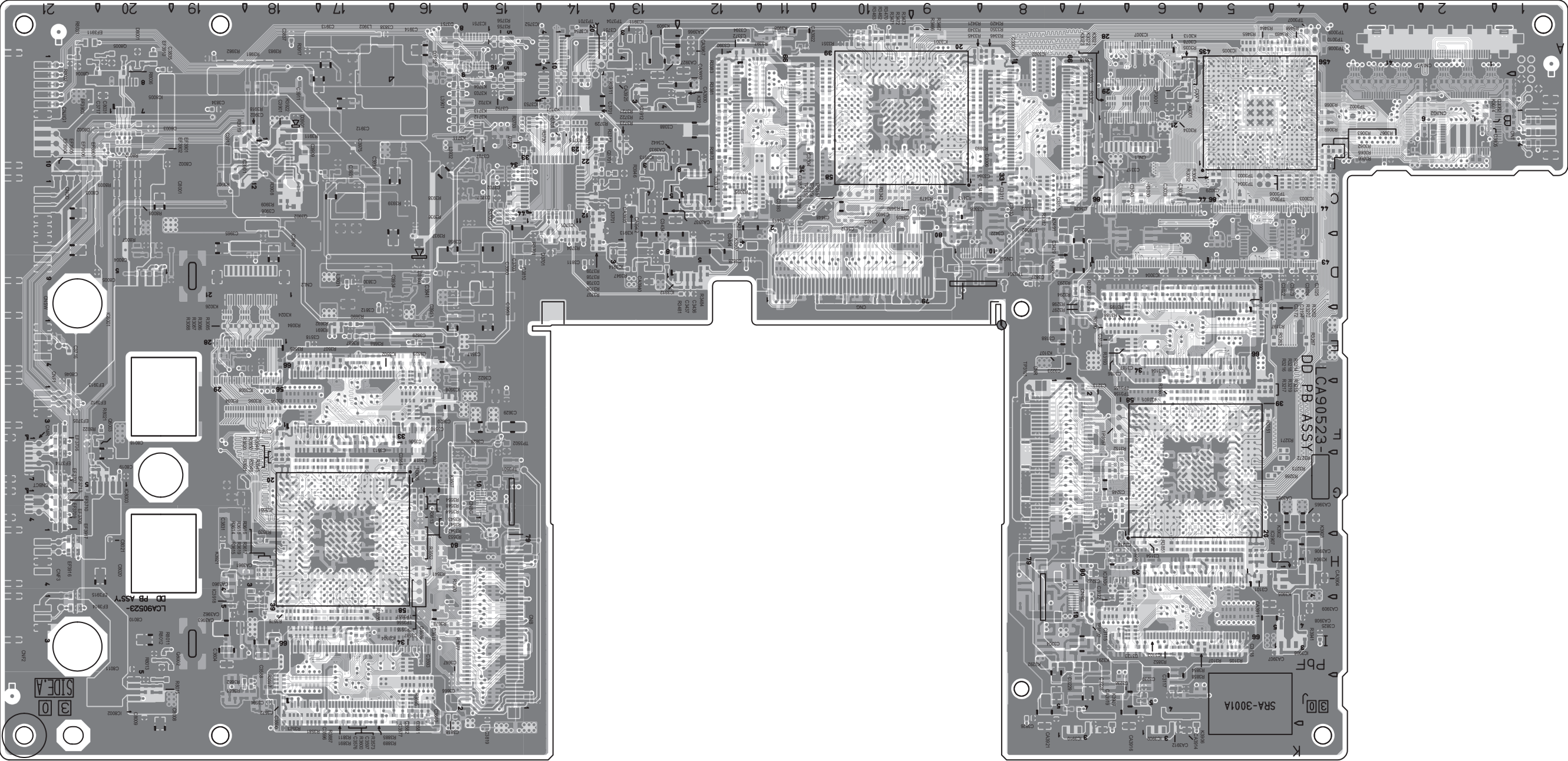


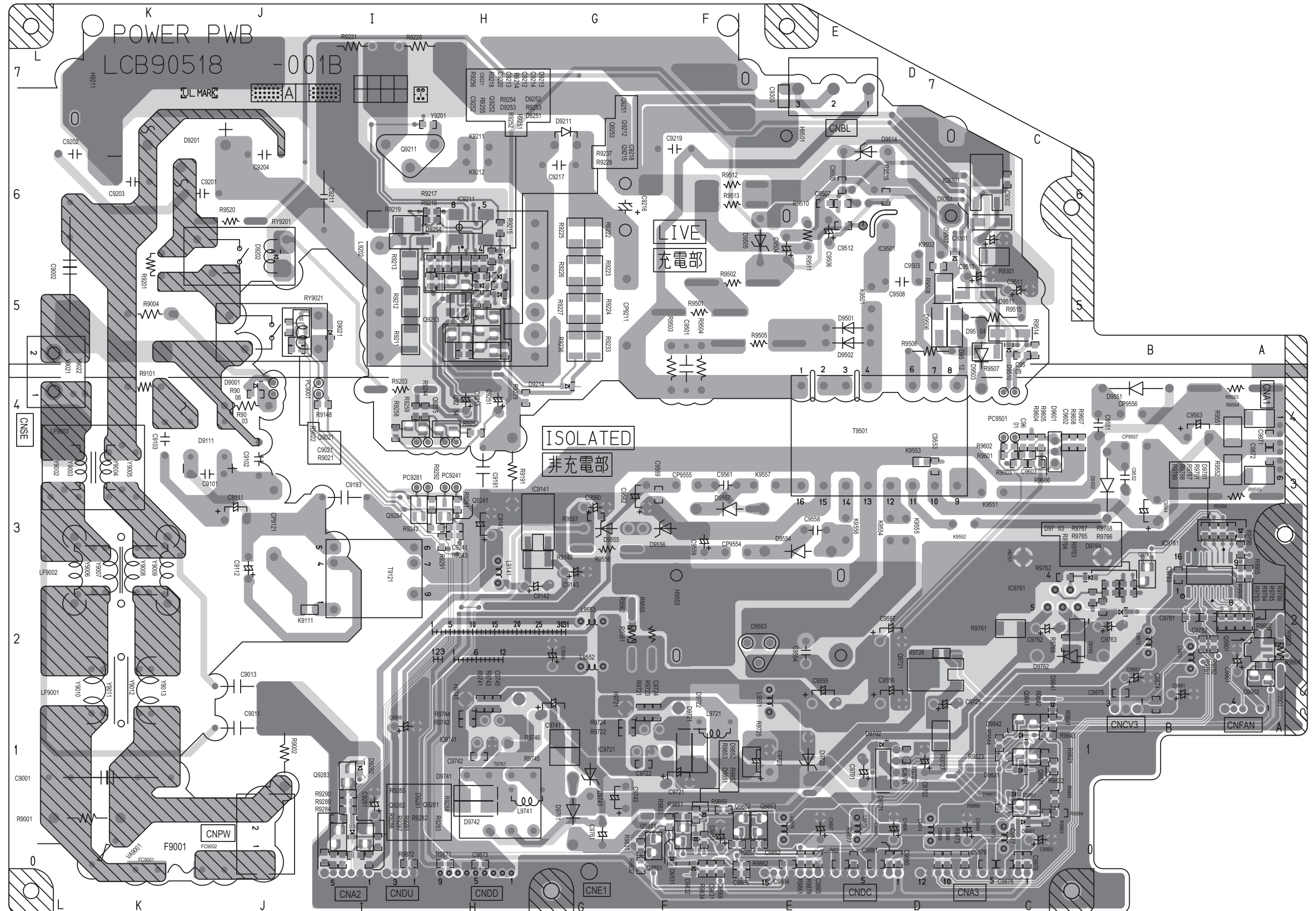




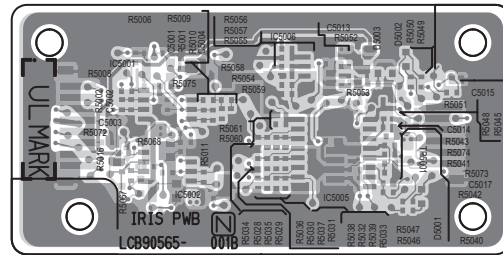




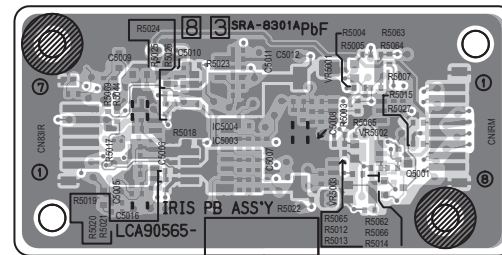




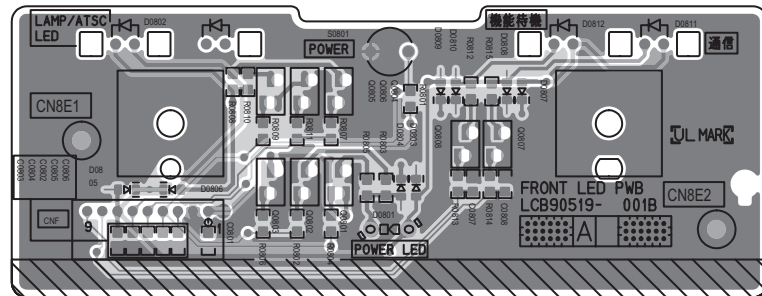
IRIS PWB PATTERN
[SOLDER SIDE]



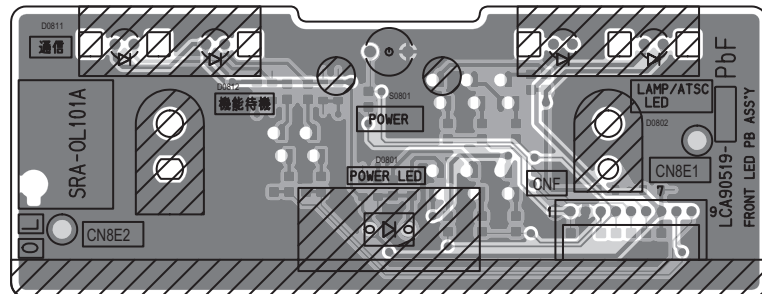
IRIS PWB PATTERN
[PARTS SIDE]



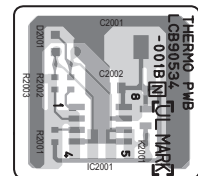
FRONT LED PWB PATTERN [SOLDER SIDE]



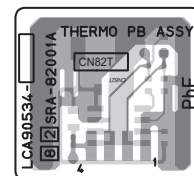
FRONT LED PWB PATTERN [PARTS SIDE]



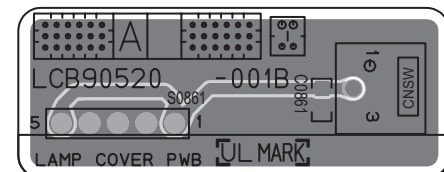
*THERMO PWB PATTERN
[SOLDER SIDE]*



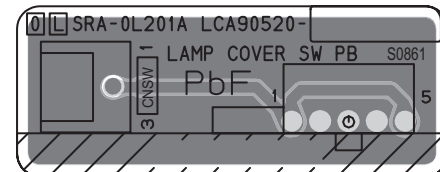
THERMO PWB PATTERN
[PARTS SIDE]



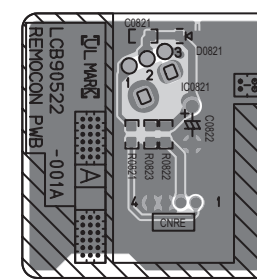
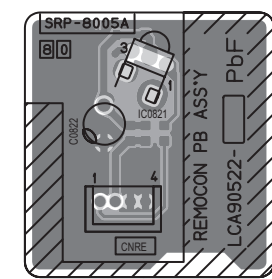
LAMP COVER SW PWB PATTERN
[SOLDER SIDE]



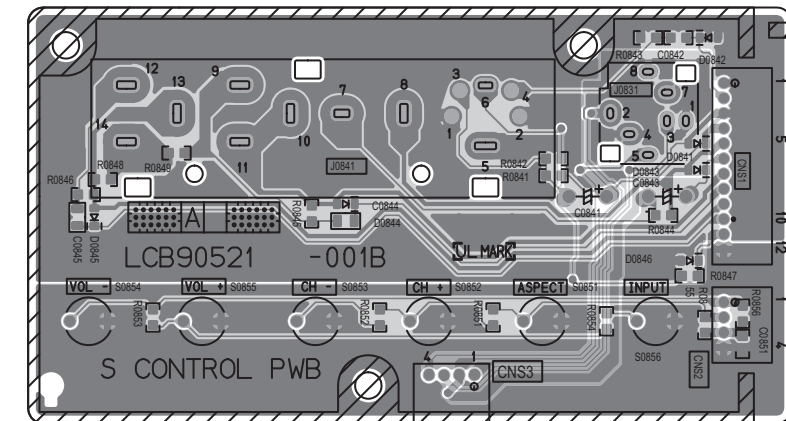
LAMP COVER SW PWB PATTERN
[PARTS SIDE]



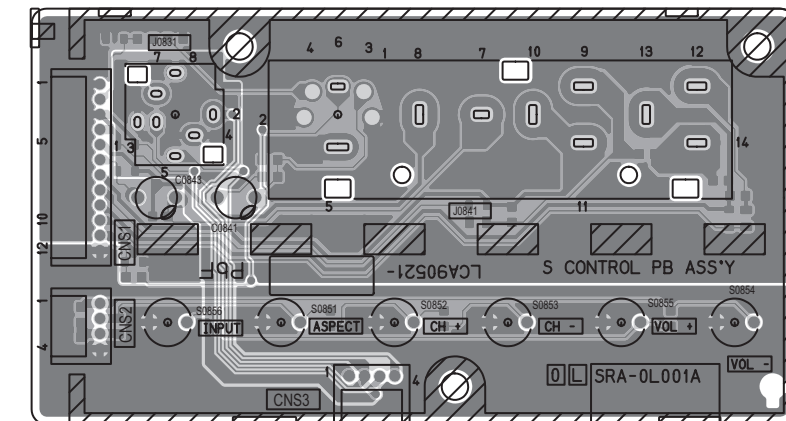
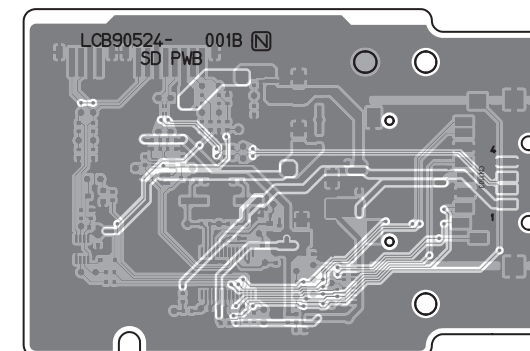
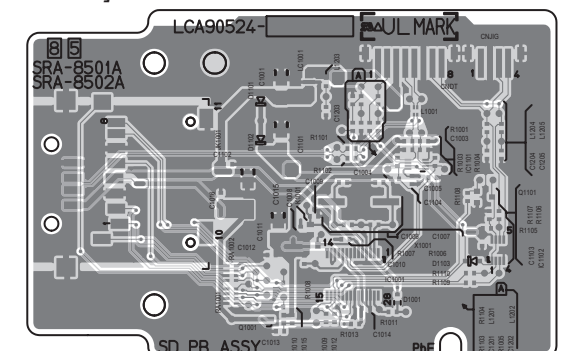
REMOCON PWB PATTERN
[SOLDER SIDE]

REMOCON PWB PATTERN
[PARTS SIDE]

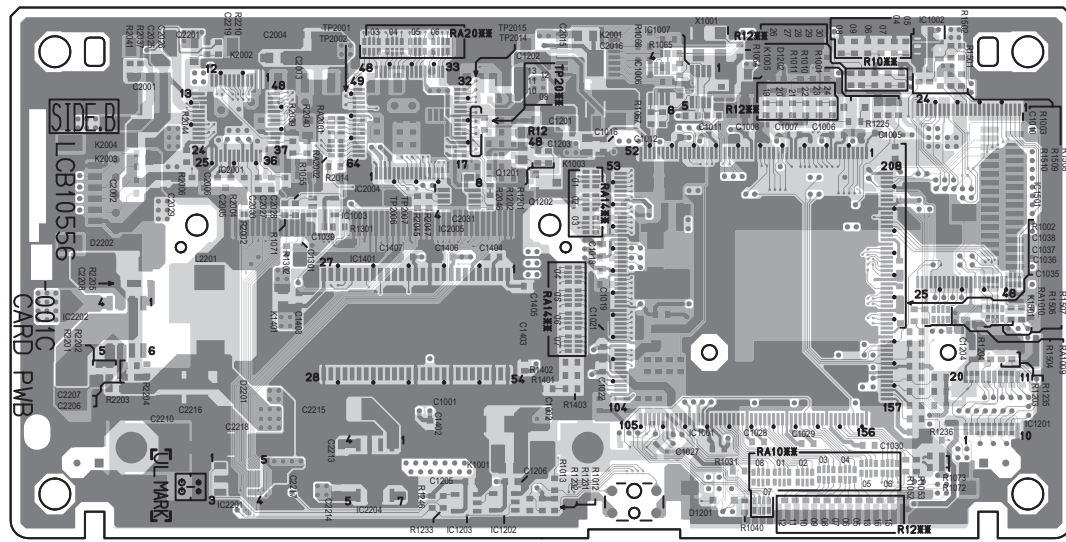
S CONTROL PWB PATTERN [SOLDER SIDE]



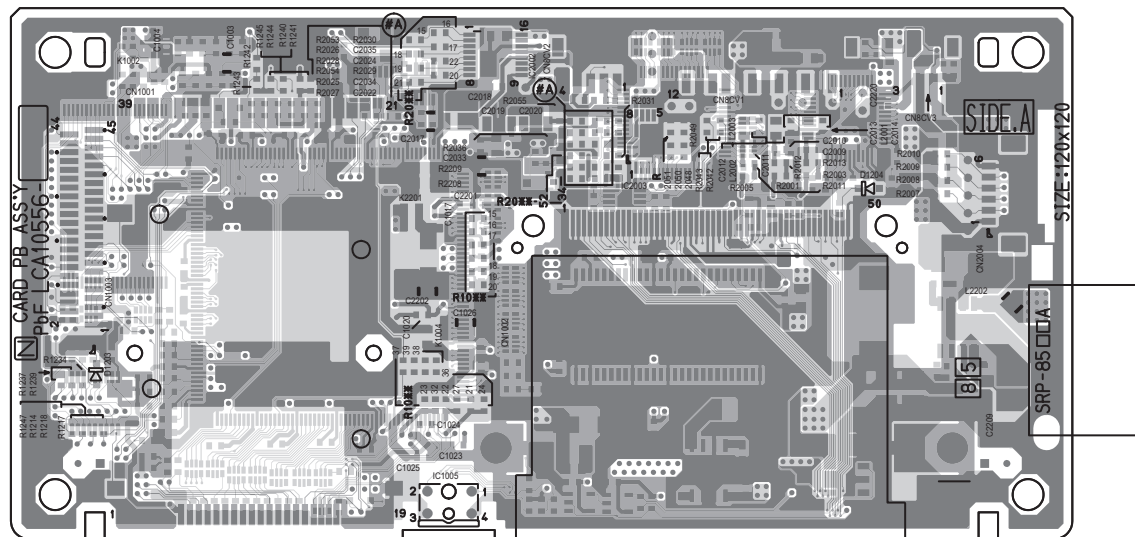
S CONTROL PWB PATTERN [PARTS SIDE]

SD PWB PATTERN
[SOLDER SIDE]SD PWB PATTERN
[PARTS SIDE]

TOP
←



TOP

<TUNER PWB>
[D 3.0, D 3.10]

[P-2-9 - P-2-10] MODE PIN NO.	DC (V)
Q004	
E	8.7
C	0
B	2.1
Q005	
E	0
C	9
B	8.7
TU001	
1	1.6
2	10.7
3	4.8
4	5
5	2
6	NC
7	4.8
8	4.8
9	30.6
10	NC
11	NC
12	NC
13	4.8
14	1.6
15	0
16	2.1
17	1.6
18	2.4
19	2.2
20	0
21	NC

MODE PIN NO.	DC (V)
9	0
10	4.5
11	4.5
12	0
13	4.5
14	4.5
15	4.5
16	4.5
17	4.5
18	9
19	4.5
20	4.5
21	0
22	4.5
23	4.5
24	0
25	4.5
26	4.5
27	0
28	4.5
29	4.5
30	9
31	0
32	4.5
33	4.5
34	4.5
35	4.5
36	4.5
37	1.4
38	1.9

MODE PIN NO.	DC (V)
5	2.4
6	2.5
7	2.5
8	2.4
9	0
10	2.4
11	2.2
12	2.4
13	0
14	0.3
15	0.3
16	0
17	2.4
18	0
19	2.4
20	0
21	2.4
22	0
23	0
24	0.1
25	5
26	0
27	4
28	3.9
29	0
30	1.8
31	6.3
32	1.8
33	0
34	1.2

MODE PIN NO.	DC (V)
1	2.1
2	2
3	9
4	2.2
5	0
6	9
IC104	
1	2.9
2	3
3	9
4	2.6
5	0
6	9
IC105	
1	2.1
2	0
3	9
4	2.2
5	0
6	9
IC106	
1	4.4
2	4.4
3	4.4
4	4.4
5	7.4
6	7.4
7	0
8	4.4
9	4.4

MODE PIN NO.	DC (V)
Q113	
E	0
C	5
B	2.9

P.2-15 - P.2-16	
MODE PIN NO.	DC (V)
IC301	
1	4.4
2	4.5
3	4.4
4	4.4
5	4.4
6	0
7	0
8	0
9	8.9
10	9
11	4.4
12	4.4
13	4.4
14	4.4
15	4.5
16	9
IC381	
1	0
2	5
3	0.1
4	0

MODE PIN NO.	DC (V)
43	6.1
44	6
45	6
46	
47	6.1
48	6.1
IC602	
1	14.4
2	2.8
3	12.1
4	2.6
5	0
IC603	
1	5.9
2	4.7
3	4.8
4	0
5	6
6	6.1
7	8
8	11.7
IC604	
1	6.1
2	6.1
3	6.1
4	0
5	6.1
6	6.1
7	6.2
8	12.1

MODE PIN NO.	DC (V)
C	14.3
B	0
Q607	
E	-14.4
C	-14.3
B	-14.3
Q614	
E	11.5
C	0
B	11.9
Q751	
E	2.4
C	2.3
B	1.8
Q752	
E	0
C	0
B	2.3

[P.2-19 - P.2-20]	
MODE PIN NO.	DC (V)
IC501	
1	4.5
2	4.5
3	4.4
4	0
5	4.4
6	4.5
7	4.5

MODE PIN NO.	DC (V)
Q432	
E	0
C	0
B	2.4
Q433	
E	2.4
C	2.5
B	0
Q451	
E	0
C	0
B	2.4
Q452	
E	0
C	0
B	2.4
Q453	
E	2.4
C	2.5
B	0

<DIGITAL PWB> [P-2-25 ~ P-2-26]	
MODE PIN NO.	DC (V)
IC6250	
1	0
2	5.4
3	1.6
4	0

MODE PIN NO.	DC (V)
Q6250	
E	1.5
C	5
B	2
Q6251	
E	2.2
C	5
B	2

[P.2-27 - P.2-28]	
MODE PIN NO.	DC (V)
IC6002	
1	1.5
2	1.5
3	0
4	2.4
5	3.2
IC6724	
1	0
2	3.3
3	0
4	3.3

[P.2-29 - P.2-30]	
MODE PIN NO.	DC (V)
IC6101	
1	1.2
2	2.4

MODE PIN NO.	DC (V)
70	0
71	1.2
72	1.2
73	2.4
74	1.2
75	1.2
76	0
77	1.2
78	1.2
79	0
80	1.2
81	1.2
82	0
83	1.2
84	1.2
85	0
86	2.4
87	0
88	0
89	0
90	0
91	0
92	0
93	0
94	1.2
95	2.4
96	2.4
97	1.2
98	1.2
99	0

MODE PIN NO.	DC (V)
53	1.3
54	0
55	3.3
56	1.3
57	1.3
58	1.3
59	1.3
60	0
61	3.3
62	1.3
63	1.3
64	1.3
65	1.3
66	0
67	3.3
68	1.3
69	1.3
70	1.3
71	1.3
72	0
73	0
74	3.3
75	0
76	0
77	0
78	0.8
79	0.8
80	0.8
81	0.6
82	3.3

MODE PIN NO.	P. 2-11 - P. 2-12 DC (V)
IC061	
1	4
2	4
3	4
4	4
5	4.9
6	4.9
7	0
8	3.9
9	3.9
10	4
11	3.8
12	3.2
13	4
14	1.2
15	1.3
16	0
17	0
18	3.2
19	8.8
20	NC
21	4
22	4
23	4
24	3.8
25	4
26	3.9
27	4
28	1.9

40	1.9
41	0
42	2.1
43	1.6
44	5
45	1.9
46	0
47	2
48	5
49	1.9
50	1.6
51	0.1
52	5
53	4.9
54	4.9
55	2.5
56	4.9
57	2.5
58	2.1
59	2.1
60	2.5
61	5
62	2.5
63	0.2
64	2.1
65	0
66	2.5
67	4.9
68	2.5
69	0.2
70	2.1
71	4.9

36	3.4
37	4.1
38	3.4
39	1.7
40	6.4
41	1.8
42	2.9
43	1.8
44	0
45	1.3
46	2.8
47	2.5
48	2.5
49	3.9
50	6.4
51	4.9
52	1.9
53	1.9
54	3
55	2.4
56	2.5
57	2.5
58	0
59	0
60	2.2
61	0
62	0
63	2.5
64	2.5
65	2.5
66	2.5
67	2.5

11	4.4
12	0
13	0
14	0
IC281	
1	NC
2	NC
3	4.5
4	NC
5	4.5
6	NC
7	0
8	9
9	0
10	4.5
11	4.5
12	9
13	3
14	3
15	NC
16	NC
17	NC
18	NC
IC282	
1	3
2	0
3	3
4	0
5	9
6	0
7	3
8	3

6	0.1
7	0
8	0
9	0.2
10	0.2
11	0.2
12	0.9
13	0.2
14	0.9
15	5
16	4.9
Q301	
E	0
C	9
B	0
Q302	
E	0
C	9
B	0

(P.2-17 - P.2-18)	
MODE	DC (V)
IC601	
1	6
2	6.1
3	6.1
4	6.1
5	6.1
6	6.1
7	0.7
8	6.1

1	-15.4
2	-15.4
3	-15.4
4	-15.4
5	14.4
6	10.3
7	1.6
8	-15.4
9	-15.4
10	-15.4
11	1.5
12	10.2
13	14.4
14	-14.4
15	-13.7
16	-15.1
17	-15.3
IC606	
1	0
2	5
3	0.1
4	5
5	4.9
6	0
7	0
8	0
9	4.8
10	4.9
11	0
12	5
13	5
14	0

IC502	1	0
	2	1.4
	3	0
	4	0
	5	3.3
	6	3.3
	7	0
	8	0
	9	0
	10	0
	11	3.3
	12	0
	13	3.3
	14	0
	15	1.2
	16	1.2
IC552	1	5
	2	0
	3	1.2
	4	1.5
	5	3.3
Q501		
E		3.8
C		9
B		4.4
Q502		
E		3.7
C		9
B		4.4
Q503		

6	0
7	0
8	0
9	5.3
10	0.7
11	0
12	3.5
13	0
14	0
15	0
16	5.3
17	0
18	0
19	0
20	2.2
21	0
22	0
23	5.3
24	5.3
IC6251	
1	1.6
2	0
3	0
4	5
5	3.3
O6201	
E	0.5
C	0
B	0.5
O6202	
E	3.3
C	0

4	1.2
5	0
6	1.2
7	1.2
8	2.4
9	1.2
10	1.2
11	0
12	1.2
13	1.2
14	0
15	2.4
16	0
17	1.2
18	1.2
19	0
20	0
21	1.2
22	1.2
23	0.6
24	0.6
25	1.7
26	1.7
27	1.8
28	0
29	0.7
30	0.7
31	0.6
32	0.6
33	0.7
34	0.7
35	2.4

[P.2-31 - P.2-32]	
MODEL NO.	DC (V)
IC6501	
1	0
2	2.6
3	1.3
4	1.3
5	2.6
6	2.6
7	2.6
8	2.6

84	0.6
85	0.8
86	0.8
87	1.3
88	0
89	0
90	0.8
91	0.8
92	0.8
93	3.3
94	0
95	0.7
96	0.9
97	0.8
98	0.6
99	0
100	0
101	0.8
102	0.8
103	3.3
104	3.3
105	0
106	0.8
107	0.8
108	0.6
109	0
110	1.1
111	1
112	0.9
113	3.3
114	0
115	0

<ANALOG PWB>

MODE PIN NO.	DC (V)
IC101	
1	4.5
2	4.5
3	0
4	4.5
5	4.5
6	0
7	4.5
8	4.5

94	0.2
95	2.1
96	4.5
97	2.5
98	4.8
99	2.5
100	2.5
IC102	
1	0
2	2.4
3	2.5
4	2.4

90	2.4
91	0
92	0.6
93	0.5
94	2.4
95	0
96	2.4
97	0
98	2.4
99	0
100	4.6
IC103	

C	0
B	1.4
Q111	
E	2.2
C	0
B	1.4
Q112	
E	1.7
C	0
B	1

31	6.1
32	6.1
33	6.1
34	0
35	0
36	6.1
37	6.1
38	0
39	6.1
40	6.1
41	6.1
42	6.1

C	0
B	0.6
Q604	
E	0
C	12.1
B	8
Q605	
E	0
C	0
B	4.4
Q606	
E	0

B	5.7
---	-----

[P.2-23 - P.2-24]

MODE PIN NO.	DC (V)
Q431	
E	0
C	0
B	2.4

E	0
C	5
B	0.7
Q6213	
E	0
C	5
B	0.7
Q6214	
E	1.5
C	5
B	2.2

58	1.2
59	0
60	1.2
61	0
62	0
63	1.2
64	1.2
65	2.5
66	0
67	2.4
68	1.2
69	1.2

41	1.3
42	0
43	3.3
44	1.3
45	1.3
46	1.3
47	1.3
48	0
49	3.3
50	1.3
51	1.3
52	1.3

138	
139	0
140	0
141	0
142	0
143	0
144	0

[P.2-35 - P.2-36]

MODE PIN NO.	DC (V)
IC7601	
1	0
2	0
3	0
4	0
5	0
6	1
7	2.8
8	0
9	0
10	0
11	0
12	0
13	1.9
14	0
15	1.4
16	3.2
17	1.8
18	1.1
19	3.2
20	3.2
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	4.9
30	3.2
31	0
32	0
33	0
34	0
35	0
36	3.2
37	0
38	0
39	0
40	0
41	3.2
42	0
43	0
44	0
45	0
46	0
47	3.2
48	0
49	3.2
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	3.9
63	0
64	3.2
65	0
66	0
67	0
68	0
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0
80	0
81	0
82	3.2
83	0
84	3.2
85	0
86	3.2
87	3.2
88	3.2
89	0
90	0
91	0
92	0
93	3.2
94	3.2
95	0
96	0.2

MODE PIN NO.	DC (V)
97	0
98	0
99	4.9
100	0
IC7602	
1	0
2	0
3	0
4	0
5	3.2
6	3.2
7	0
8	3.2
IC7603	
1	3.3
2	0
3	0
4	0
5	0
6	5
7	3.3
8	0.2
9	0.4
10	0
11	0.3
12	0
13	3.2
14	2.7
15	3.2
16	3
17	3.2
18	2.6
19	0
20	0.1
21	0.3
22	0.3
23	0.3
24	0.3
25	3.2
26	0
27	0.3
28	0.3
29	0.3
30	0.3
31	0.4
32	0.4
33	0
34	3.2
35	3
36	2.7
37	0
38	3.2
39	0.4
40	0.4
41	0
42	0.4
43	0.2
44	0.3
45	0.3
46	0.2
47	0.3
48	0.3
49	0.2
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0.2
63	0.2
64	0.2
65	0.2
66	0.1
67	0.3
68	0.2
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0.1
78	0.2
79	0.2
80	0.2
81	0.2
82	0.2
83	0.2
84	0.2
85	0.2
86	3.3
87	0
88	3.3
89	0.2
90	0.2
91	0.2
92	0.2
93	0.2
94	0.2
95	0.2
96	0.2

MODE PIN NO.	DC (V)
37	3.2
38	0.1
39	0.2
40	0.2
41	0.1
42	0.2
43	0.2
44	0.2
45	0.1
46	0
47	3.3
48	0.2
IC7203	
1	3.2
2	0
3	0.3
4	0
5	0.4
6	0
7	3.3
8	0.2
9	0.4
10	0
11	0.3
12	0
13	3.2
14	2.7
15	3.2
16	3
17	3.2
18	2.6
19	0
20	0.1
21	0.3
22	0.3
23	0.3
24	0.3
25	3.2
26	0
27	0.3
28	0.3
29	0.3
30	0.3
31	0.4
32	0.4
33	0
34	3.2
35	3
36	2.7
37	0
38	3.2
39	0.4
40	0.4
41	0
42	0.4
43	0.2
44	0.3
45	0.3
46	0.2
47	0.3
48	0.3
49	0.2
50	0
51	0
52	0
53	0
54	0
55	0
56	0
57	0
58	0
59	0
60	0
61	0
62	0.2
63	0.2
64	0.2
65	0.2
66	0.1
67	0.3
68	0.2
69	0
70	0
71	0
72	0
73	0
74	0
75	0
76	0
77	0.1
78	0.2
79	0.2
80	0.2
81	0.2
82	0.2
83	0.2
84	0.2
85	0.2
86	3.3
87	0
88	3.3
89	0.2
90	0.2
91	0.2
92	0.2
93	0.2
94	0.2
95	0.2
96	0.2

MODE PIN NO.	DC (V)
6	3.2
7	3.2
8	0
9	0
10	3.2
11	0
12	3.2
13	3.2
14	3.3
15	0
16	3.2
IC7036	
1	3.3
2	0
3	0
4	0
5	3.3
6	0
Q7030	
E	0
C	0
B	0
Q7032	
E	3.3
C	3.3
B	0
Q7033	
E	3.2
C	3.2
B	0
Q7034	
E	3.3
C	-0.1
B	3.2
Q7035	
E	3.2
C	-0.3
B	0
IC7607	
1	0
2	3.3
3	3.3
4	0
5	3.3
6	0
7	0
8	3.2
9	3.2
10	3.3
11	3.2
12	3.3
13	3.2
14	3.3
15	3.2
16	3.3
17	3.2
18	3.2
19	3.2
20	3.3
21	3.2
22	3.3
23	3.2
24	3.3
25	3.2
26	3.3
27	3.2
28	3.3
29	3.2
30	3.3
31	3.2
32	3.3
33	3.2
34	3.3
35	3.2
36	3.3
37	3.2
38	3.3
39	3.2
40	3.3
41	3.2
42	3.3
43	3.2
44	3.3
45	3.2
46	3.3
47	3.2
48	3.3
49	3.2
50	3.3
51	3.2
52	3.3
53	3.2
54	3.3
55	3.2
56	3.3
57	3.2
58	3.3
59	3.2
60	3.3
61	3.2
62	3.3
63	3.2
64	3.3
65	3.2
66	3.3
67	3.2
68	3.3
69	3.2
70	3.3
71	3.2
72	3.3
73	3.2
74	3.3
75	3.2
76	3.3
77	3.2
78	3.3
79	3.2
80	3.3
81	3.2
82	3.3
83	3.2
84	3.3
85	3.2
86	3.3
87	3.2
88	3.3
89	3.2
90	3.3
91	3.2
92	3.3
93	3.2
94	3.3
95	3.2
96	3.3

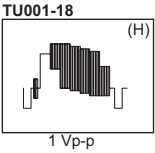
MODE PIN NO.	DC (V)
IC6011	
1	0
2	0
3	0
4	0
5	0
6	0
7	0
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	3.3
18	0
19	0
20	0
21	0
22	0
23	0
24	0
25	0
26	0
27	0
28	0
29	1.3
30	0.8
31	0.8
32	0.8
33	0.8
34	0.8
35	0.8
36	2.5
37	1.7
38	0
39	1.1
40	0
41	1.1
42	1.1
43	1.1
44	0.7
45	0
46	0
47	0.6
48	0
49	0
50	0.7
51	0
52	0
53	0
54	0
55	3.3
56	3.3
IC6012	
1	3.5
2	0.1
3	0.1
4	0
5	0
6	3.5
7	3.5
8	3.5
IC6013	
1	3.4
2	0.1
3	1.7
4	0
5	3.5
6	0.1
7	3.5
8	3.5
IC6014	
1	3.9
2	0
3	3.9
4	0
5	3.5
6	9
7	2.8
8	0

MODE PIN NO.	DC (V)
IC8803	
1	0
2	3.3
3	0
4	3.3
IC8831	
1	0
2	0
3	0
4	0.6
5	0.6
6	0.6
7	0
8	0
9	0
10	0
11	3.3
12	3.3
13	3.3
14	0
15	3.3
16	0
17	3.3
18	0
19	0
20	0
21	0
22	0
23	3.3
24	0
25	0
26	0
27	0
28	0
29	1.3
30	1.2
31	0.8
32	0.8
33	0.8
34	0.8
35	0.8
36	2.5
37	1.7
38	0
39	1.1
40	0
41	1.1
42	1.1
43	1.1
44	0.7
45	0
46	0
47	0.2
48	0
49	0
50	0
51	0
52	0
53	0
54	0
55	3.3
56	0
57	0
58	0
59	0
60	0
61	0
62	0
63	0
64	3.3
65	0
66	0
67	0
68	3.3
69	0
70	3.3
71	0
72	0
73	0
74	0
75	0
76	0
77	0
78	0
79	0.9
80	0
IC8832	
1	0.7
2	0
3	1.3
4	5
5	0.7

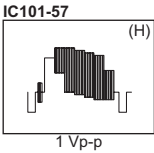
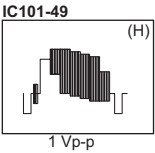
MODE PIN NO.	DC (V)
IC8833	
1	0
2	1.6
3	0
4	1

WAVEFORMS

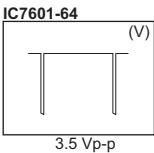
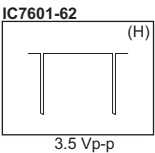
TUNER PWB(1/2)



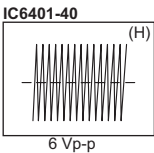
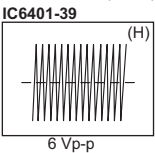
ANALOG PWB(1/6)



DIGITAL PWB(6/17)



DIGITAL PWB(17/17)





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